

TOSHIBA POS Terminal



Windows Setup Guide <u>Windows 2000 / XP / Vista / 7 /</u> <u>WEPOS / POSReady 2009 /</u>

First Edition	: August 21, 2008
Second Edition	: November 28, 2008
Third Edition	: February 9, 2009
Fourth Edition	: October 8,2009
Fifth Edition	: November 6, 2009
Sixth Edition	: October 29, 2010

TOSHIBA TEC CORPORATION

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1. Overview

This document describes the procedures and notes for installing the ST-A20 drivers and building a RAID.

The outline of procedures to install Windows operating system on the ST-A20 is as follows:

Windows Setup Procedure

- 1) Installation for Operating System
- 2) Installation for Intel Chipset Software
- 3) Installation for Intel Graphic Accelerator Driver
- 4) Installation for Intel Network Driver
- 5) Installation for Realtek Audio Driver
- 6) Installation for EloTouch Panel Driver
- 7) Installation for i-Button Driver

2. Setup for Windows 2000

2.1. Installation for Operating System (Windows 2000)

Windows 2000 operating system must be installed with the Service Pack SP3 or later on the ST-A20.

To install the operating system using a bootable CD, use the one for Windows 2000 SP3 or later.

To install the operating system via network, Service Pack SP3 or later must be applied to Windows 2000 network image before installing.

- Note: On basic information, ST-A20 applies an SATA technology for connection to a hard disk drive (HDD). Windows 2000 SP2 or earlier doesn't support SATA.
- Notes: To use the RAID, the RAID must be built using the RAID BIOS Utility with reference to Section 6.1 Creation of RAID from RAID BIOS Menu.

To use the RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

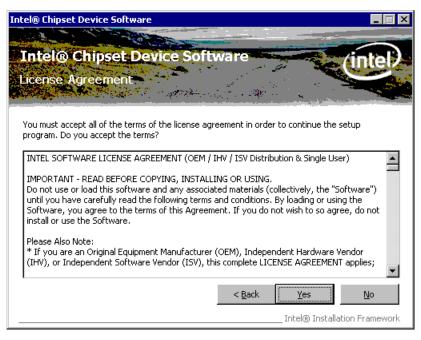
Notes: To use the two HDDs without using RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

2.2. Installation for Intel Chipset Software

Run "Setup.exe" in the "ST-A20\Intel\Chipset\2000" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.

Intel® Chipset Device Software			_ 🗆 ×
Intel® Chipset Device Softw	are		intel
Welcome to the Setup Program			
This setup program will install the Intel® Chipset D strongly recommended that you exit all programs b			ter. It is
I	< Back	Next >	<u>C</u> ancel

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.

Intel® Chipset Device Software	×
	-
Intel® Chipset Device Software	
Readme File Information	
Refer to the Readme file below to view the system requirements and installation information.	
Press the Page Down key to view the rest of the file.	
	a I
* Product: Intel(R) Chipset Device Software	
* Release: Production Version	
* Version: 8.3.1.1009	
* Target Chipset#: X38 & 3200/3210 Chipset	
* Date: July 26 2007	

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< <u>B</u> ack <u>Next</u> > <u>C</u> ancel	1
Intel® Installation Framework	k

The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

Intel® Chipset Device Software
Intel® Chipset Device Software (intel)
Setup Progress
Please wait while the following setup operations are performed:
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27C9 Version: 8.2.0.1008
Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CA
Version: 8.2.0.1008 Installing Driver: Intel(R) 82801G (ICH7 Family) USB Universal Host Controller - 27CB
Version: 8.2.0.1008 Installing Driver: Intel(R) 82801G (ICH7 Family) USB2 Enhanced Host Controller - 27CC
Version: 8.2.0.1008
Click Next to continue.
Next
Intel® Installation Framework

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.

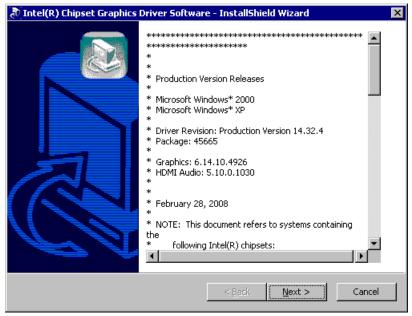


2.3. Installation for Intel Graphic Accelerator Driver

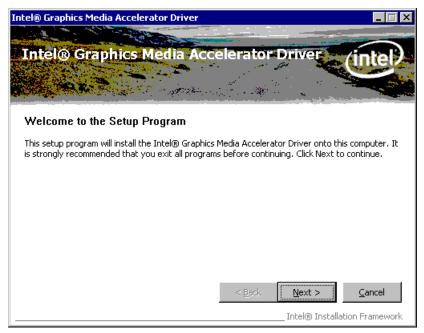
2.3.1. Installation

Run "win2k_xp14324.exe" in the

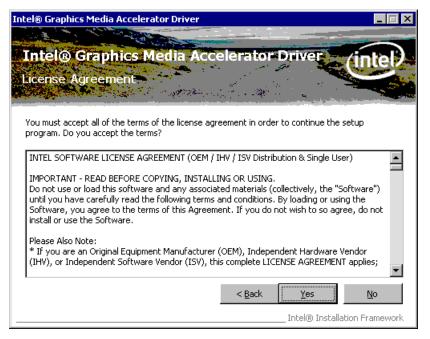
"ST-A20\Intel\Graphic_driver\2000_XP_WEPOS_POSReady" folder in the Driver Kit CD-ROM. The following window appears. Click on the "Next" button.



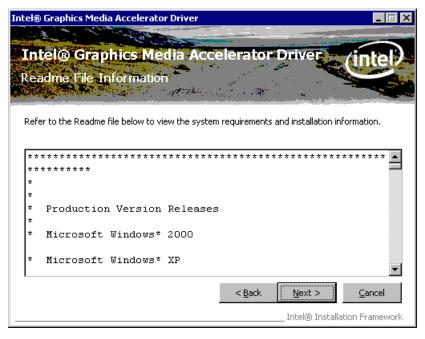
After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver (intel)
Setup Progress
Please wait while the following setup operations are performed:
Copying File: HDMIENU.dll Creating Key: HKLM\System\CurrentControlSet\Control\Windows\SystemDirectory=C:\WINNT Creating Key: HKLM\System\CurrentControlSet\Services\ialm\Device1\SystemDirectory=C:\W: Creating Key: HKLM\System\CurrentControlSet\Services\ialm\Device1\SystemDirectory=C:\W: Creating Key: HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\HDMI\DisplayNa Creating Key: HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\HDMI\UninstallSI Installing Driver: Mobile Intel(R) 945 Express Chipset Family Version: 6.14.10.4926
Click Next to continue.
[<u>N</u> ext
Intel® Installation Framework

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



Open Device Manager to confirm the graphic driver has been installed. Make sure that "Mobile Intel(R)945 Express Chipset Family" is registered under the "Display adapters" icon..

🖳 Device Manager	- 🗆 🗵
Action View ← → 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

2.3.2. Additional Setting When Connecting TFTST-A20

When using TFTST-A20, it is necessary to change setting as follows by Intel Graphic control panel.

Below is Intel Graphic Control Panel (From Task tray or Control Panel)

Graphics Media Accelerator Driver for mobile	🛃 Notebook a	nd Monitor	Scheme	e Options
Display Devices	Single Display	C Monitor		
Display Settings	C Television			
Color Correction	Multiple Display	Primary Device		
Hot Keys	Intel(R) Dual	Notebook 💌		
(intel)	Display Clone • Extended Desktop	Secondary Device Monitor		2
Launch Zoom	3D Settings			
Information	Video Overlay	/		

Select [Display Devices] Tab and check "Extended Desktop" radio button. Click [Apply] button, then, TFTST-A20 available.

Graphics Media Accelerator Driver for mobile	🤳 Notebook	Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	Rotation
Display Settings	Screen Resolution	800 x 600	
Color Correction	Refresh Rate	60 Hertz	90 C 🔟 C 270
Hot Keys	Display Expansion	Options	90 (° <u>2</u> 70 © 180
(intel)			Power Settings
Launch Zoom	3D Settings		
Information	Video Overlay	/	

raphics Media ccelerator Driver or mobile	J Notebook	Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	Rotation
)isplay Settings	Screen Resolution	800 x 600	 Enable Rotation 0
Color Correction	Refresh Rate	60 Hertz	• 90 ° 🔽 ° 270
Hot Keys	Display Expansion	Options	C 180
(intel)			Advanced Settings
Launch Zoom	3D Settings		
Information	Video Overlay		

About the other performance (Screen resolution, Color Quality, etc):

Please set TFTST-A20 for your environment by two Control Panel above at any time.

2.4. Installation for Intel Network Driver

Open the "Administrative Tools" in Control Panels. And then, open the "Services".

🗃 Administrative Tools				<u>_ D ×</u>
<u> </u>	ıls <u>H</u> elp			-
] 🗢 Back 🔹 🔿 👻 🔂 😡 Search	🕒 Folders 🛛 🛞 History	B C $ imes$	M III.	
Address 🗃 Administrative Tools			-	<i>∂</i> Go
	Name 🛆	Size	Туре	
	🚡 Component Services	1 KB	Shortcut	
	💂 Computer Manag	2 KB	Shortcut	
Administrative	避 Data Sources (OD	2 KB	Shortcut	
Tools	🛃 Event Viewer	2 KB	Shortcut	
	Docal Security Policy	2 KB	Shortcut	
Select an item to view its	Performance	2 KB	Shortcut	
description.	Services	2 KB	Shortcut	
Configures administrative settings for your computer	Telnet Server Ad	2 KB	Shortcut	
See also:				
My Documents				
My Network Places				
My Computer				
	4			•
Starts and stop services.	1.	31 KB 📃 I	My Computer	1.

Next, open the "Windows Management Instrumentation" Service Properties menu.

🍇 Services				_ 🗆 ×
] <u>A</u> ction ⊻iew] ← →	🖮 🖬 😭 🔂 🔂 🕨 = 🗉	₽		
Tree	Name 🔺	Description	Status	Startup Type 🔺
Services (Local)	Removable Storage	Manages r	Started	Automatic
1	Routing and Remote Access	Offers rout		Disabled
	RunAs Service	Enables st	Started	Automatic
	Security Accounts Manager	Stores sec	Started	Automatic
	Server 🗧	Provides R	Started	Automatic
	🏶 Smart Card	Manages a		Manual
	🏶 Smart Card Helper	Provides s		Manual
	System Event Notification	Tracks syst	Started	Automatic
	🏶 Task Scheduler	Enables a	Started	Automatic
	TCP/IP NetBIOS Helper Service	Enables su	Started	Automatic
	🖏 Telephony	Provides T	Started	Manual
	🎨 Telnet	Allows a re		Manual
	Uninterruptible Power Supply	Manages a		Manual
	🖏 Utility Manager	Starts and		Manual
	🏶 Windows Installer	Installs, re		Manual
	Windows Management Instrumentation	Provides s		Manual
	Windows Management Instrumentation Driv	Provides s	Started	Manual
	Windows Time	Sets the co		Manual
	Wireless Configuration	Provides a		Manual —
	🏶 Workstation	Provides n	Started	Automatic 🚬 💌
	▲			•

12

Change the "Startup types" to "Automatic", and click on the "Start" button to start this service. And then, click on the "OK" button.

nuuws manaye	ment Instrumentation Properties (Local Com 🞴
General Log On	Recovery Dependencies
Service name:	WinMgmt
Display <u>n</u> ame:	Windows Management Instrumentation
Description:	Provides system management information.
Pat <u>h</u> to executab C:\WINNT\Syst	ole: em32\WBEM\WinMgmt.exe
Startup typ <u>e</u> :	Automatic
Service status:	Started
Start	Stop Pause Resume
2.000	
	the start parameters that apply when you start the service
You can specify	the start parameters that apply when you start the service
You can specify from here.	the start parameters that apply when you start the service

Run "PRO2KXP.exe" in the "ST-A20\Intel\Lan_driver\2000_XP_WEPOS_POSReady" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.

🙀 Intel(R) Network Connections - InstallShield Wizard	×
Welcome to the InstallShield Wizard for Intel(R) Network Connections	(intel)
Installs drivers, Intel(R) PROSet for Windows* Device Manager, and Advanced Networking Services.	
WARNING: This program is protected by copyright law and international treaties.	
InstallShield	Cancel

The "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the license agreement" radio button and click on the "Next" button.

🔂 Intel(R) Network Connections - Ins	tallShield Wizar	d	×
License Agreement Please read the following license agreer	ment carefully.		(intel)
INTEL SOFTWARE LICENSE AGREEMENT (Final, License) IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING. Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software. LICENSES: Please Note:			
© I accept the terms in the license agreen © I do not accept the terms in the license InstallShield		Next >	Print Cancel

The "Setup Options" window appears. If nothing specially required, click on the "Next" button with default condition.

Intel(R) Network Connections			×
Setup Options Select the program features you want in	nstalled.		(intel)
Install:			
Drivers Drivers Intel(R) PROSet for Windows* Dev Dev Advanced Network Services Intel(R) Network Connections SNM	-		
- Feature Description			
	< <u>B</u> ack	Next >	<u>C</u> ancel

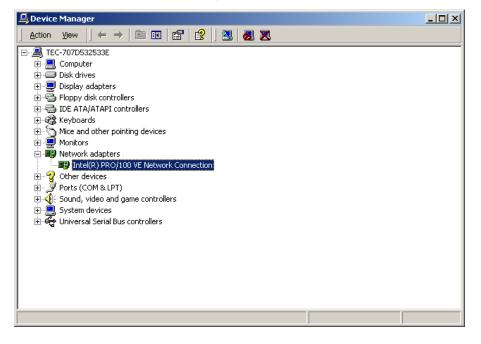
The following window appears. Click on the "Install" button to start the installation.

🙀 Intel(R) Network Connections - Ins	tallShield Wiza	ard	×
Ready to Install the Program The wizard is ready to begin installation	I.		(intel)
Click Install to begin the installation.			
If you want to review or change any of exit the wizard.	your installation	settings, click Back. C	lick Cancel to
InstallShield			
	< <u>B</u> ack	Install	Cancel

After completion of the installation, the following window appears. Click on the "Finish" button to complete the installation.

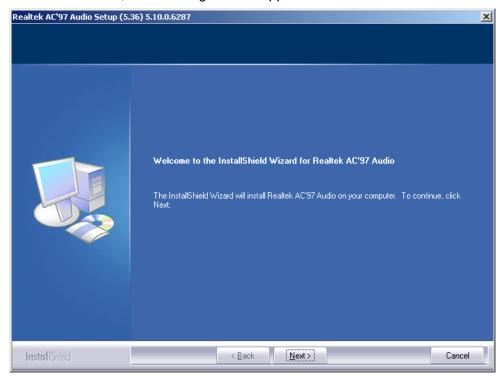
🙀 Intel(R) Network Connections - InstallShield Wizard	×
InstallShield Wizard Completed	(intel)
To access new features, open Device Manager, and view the properties of the network adapters.	
InstallShield < Back Finish	Cancel

Open Device Manager to confirm the network driver has been installed. Make sure that "Intel (R)PRO/100 VE Network Connection" is registered under the "Network adapters" icon.



2.5. Installation for Realtek Audio Driver

Run "setup.exe" in the "ST-A20\Intel\Audio\2000_XP_WEPOS_POSReady" folder in the Driver kit CD-ROM. After a while, the following window appears. Click on the "Next" button.



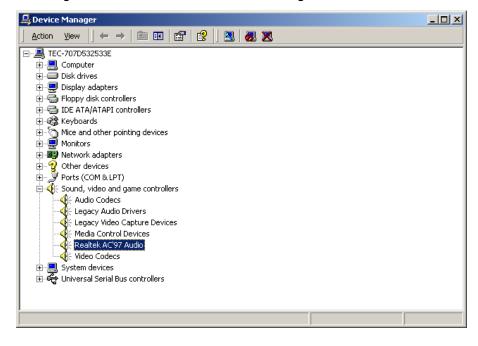
After a while, the following window appears. Click on the "Yes" button.

Digital Signature Not Fou	nd	×
	The Microsoft digital signature affirms that software has been tested with Windows and that the software has no been altered since it was tested. The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows. Realtek AC'97 Audio If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available. Do you want to continue the installation?	
	Yes <u>N</u> o <u>M</u> ore Info	

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now" radio button, then click on the "Finish" button to reboot your computer.

Realtek AC'97 Audio Setup (5.36) 5.10.0.6287		
	InstallShield Wizard Complete Setup has finished installing Realtek AC'97 Audio on your computer.	
	 Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup. 	
InstallShield	< <u>B</u> ack Finish Cancel	

Open Device Manager to confirm the audio driver has been installed. Make sure that "Realtek AC'97 Audio" is registered under the "Sound, video and game controllers" icon.



2.6. Installation for Elo Touch Panel Driver

2.6.1. Installation for Standard Model

Run "SW600188.exe" in the "ST-A20\Tablet\2000" folder in the Driver Kit CD-ROM, and the following window appears. Click on the "OK" button.

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows 2K/XP/Vista Installer.
Driver Version 4.6.3b (08-24-2007)
Click OK to continue.
(ОК

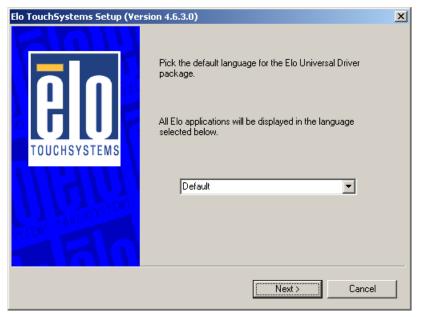
The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW6001	88.exe	×
To unzip all files in SW600188.exe folder press the Unzip button.	to the specified	<u>U</u> nzip
Unzip to <u>f</u> older:		Run <u>₩</u> inZip
stems\Elo Universal Driver 463b	<u>B</u> rowse	<u>C</u> lose
verwrite files without prompting]	About
When done unzipping open: .\Elosetup.exe		<u>H</u> elp

The following window appears. Click on the "OK" button.



The following window appears. Choose a language, if necessary, and then click on the "Next" button.



The following window appears. Check the "Install Serial Touchscreen Drivers" check box, then click on the "Next" button.

Elo TouchSystems Setup (Ve	rsion 4.6.3.0)	×
TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Install Serial Touchscreen Drivers Install USB Touchscreen Drivers	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo TouchSystems Setup (Version 4.6.3.0)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement	
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.	
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a	
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.	
< Back Yes No	

The following window appears. Check the "Auto-detect Elo devices" check box, then click on the "Next" button.

Elo Touchscreen Setup		X
TOUCHSYSTEMS	Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue.	
	< Back Next > Cancel	

The following window appears. The touch panel connected to the ST-A20 is detected, and "COM6" is chosen. If "COM6" is not chosen, there may be a problem. Click on the "Next" button.

Elo TouchSystems Setup (Version 4.6.3.0)		×
elo	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
TOUCHSYSTEMS	COM4	
ILIU	COM6	
ISTENS TONIUS	Once you have selected a COM port, click Next to continue the installation.	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" is chosen, then click on the "Next" button.

Elo TouchSystems Setup (Versi	on 4.6.3.0)	X
	You have selected the COM ports listed below to use with your touchmonitor.	
	COM6	
Ring Buller	Click Next to complete the installation or click Back to change your selections.	
	< Back Next> Cancel	

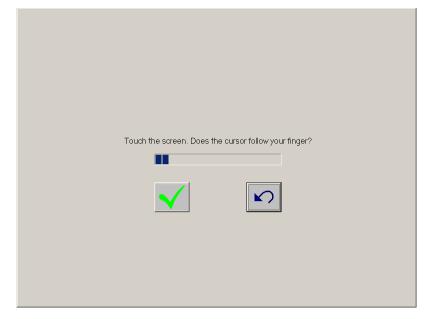
After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup		×
BO TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
	Calibrate Elo Touchscreen monitors.	
	< Back Finish	

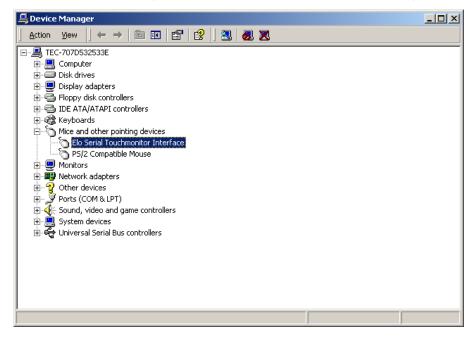
The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

Touch targets from position of normal use

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



2.6.2. Installation When Connecting TFTST-A20

Run "SW600188.exe" in the "ST-A20\Tablet\2000" folder in the Driver Kit CD-ROM, and the following window appears. Click on the "OK" button.

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows 2K/XP/Vista Installer.
Driver Version 4.6.3b (08-24-2007)
Click OK to continue.
OK

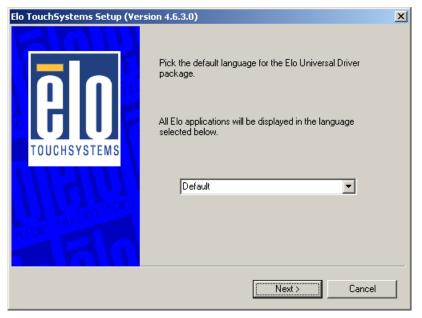
The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW600188.exe	×
To unzip all files in SW600188.exe to the specified folder press the Unzip button.	<u>U</u> nzip
Unzip to <u>f</u> older:	Run <u>W</u> inZip
stems\Elo Universal Driver 463b	<u>C</u> lose
verwrite files without prompting	<u>A</u> bout
✓ When done unzipping open: .\Elosetup.exe	Help

The following window appears. Click on the "OK" button.



The following window appears. Choose a language, if necessary, and then click on the "Next" button.



The following window appears. Check the "Install Serial Touchscreen Drivers" check box, then click on the "Next" button.

Elo TouchSystems Setup (Version 4.6.3.0)		
TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Install Serial Touchscreen Drivers Install USB Touchscreen Drivers	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo TouchSystems Setup (Version 4.6.3.0)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement	
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.	
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a	
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.	
< Back Yes No	

The following window appears. Check the "Auto-detect Elo devices" check box, then click on the "Next" button.

Elo Touchscreen Setup		X
TOUCHSYSTEMS	Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue.	
	< Back Next > Cancel	

The following window appears. The touch panel connected to the ST-A20 and the TFTST-A20 are detected, and "COM6" and "COM1 or 2" are chosen. If "COM6" and "COM1 or 2" is not chosen, there may be a problem. Click on the "Next" button.

Elo TouchSystems Setup (Versio	on 4.6.3.0)	×
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
TOUCHSYSTEMS	□ COM1 ✓ COM2 □ COM3 □ COM4 □ COM5 ✓ COM6	
	Once you have selected a COM port, click Next to continue the installation.	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" and "COM1 or 2" are chosen, then click on the "Next" button.

Elo TouchSystems Setup (Version 4.6.3.0)				
	You have selected the COM ports listed below to use with your touchmonitor.			
TOUCHSYSTEMS	COM2 COM6			
VITONS TONCOM	Click Next to complete the installation or click Back to change your selections.			
	< Back Next > Cancel			

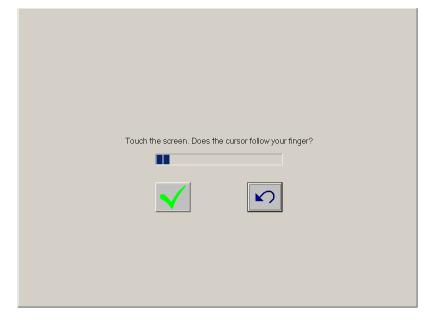
After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup		×
BOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
NTERNE FOR CONTRACT	Calibrate Elo Touchscreen monitors.	
	< Back Finish	

The following calibration screen appears on ST-A20 main screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

۲	
	Touch targets from position of normal use

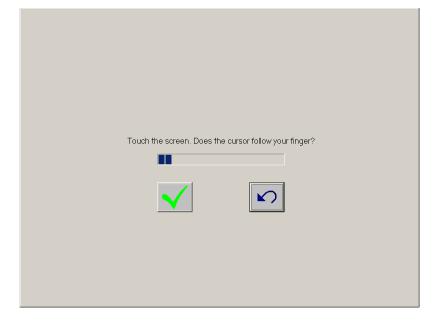
After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



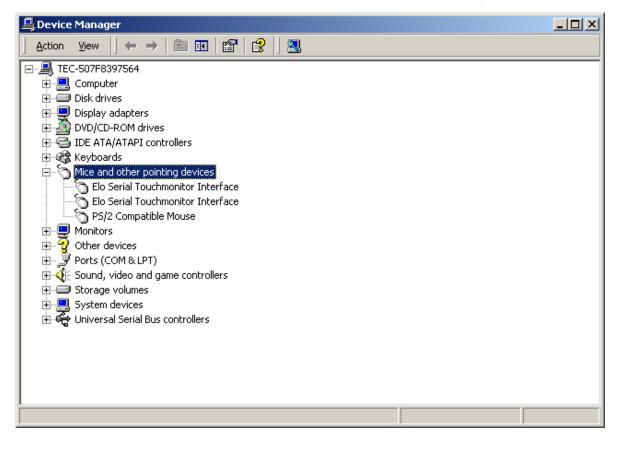
The following calibration screen appears on TFTST-A20 screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

۲	
	Touch targets from position of normal use

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration

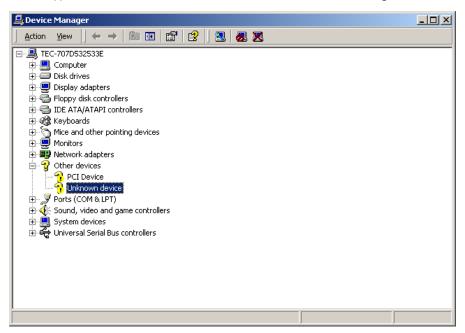


Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



2.7. Installation for i-Button Driver

When the iButton is connected to the ST-A20, "Unknown Device" is shown with an exclamationmark (!) under the "Other devices" icon in the Device Manager window.



We can not redistribute this installation driver.

Therefore, if you need the driver, you have to download the driver from following site. http://www.maxim-ic.com/products/ibutton/software/tmex/

Note: This URL was written on 2008/7/30.

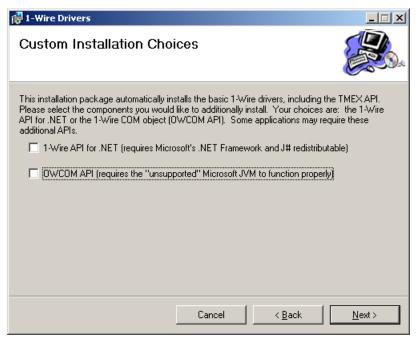
Run the "install_1_wire_drivers_v400.msi" which you downloaded. The following window appears. Click on the "Next" button.



After a while, the "License Agreement" window appears. Confirm the contents. If you agree, check the "I Agree" radio button and click on the "Next" button.

🙀 1-Wire Drivers			_ 🗆 🗙
License Agreement			
Please take a moment to read the lic Agree", then "Next". Otherwise click		ou accept the terms be	low, click ''l
Copyright (C) 2005 D Corporation, All Rig Permission is hereby person obtaining a c documentation files Software without res limitation the right publish, distribute, the Software, and to	hts Reserved. granted, free copy of this sof (the "Software" triction, inclu s to use, copy, sublicense, an	of charge, to tware and ass), to deal in ding without modify, merge d/or sell cop	ociated the e,
◯ I <u>D</u> o Not Agree			
	Cancel	< <u>B</u> ack	<u>N</u> ext >

The following window appears. If you only use the Keylock OPOS Control, you don't need "1-Wire API for .NET" and "OWCOM API". If you need these drivers, please check it. Then click on the "Next" button.



The following window appears. Click on the "Next" button.

🙀 1-Wire Drivers	
1-Wire Drivers USB Warning	
WARNING, if you currently have a 1-Wire USB device p driver to be updated.	lugged in, you must UNPLUG it for the
Cancel	< <u>B</u> ack

Configure the necessary settings, then click on the "Next" button.

🙀 1-Wire Drivers	
Select Installation Folder	
The installer will install 1-Wire Drivers to the following folder.	
To install in this folder, click "Next". To install to a different fol	lder, enter it below or click "Browse".
	- 100
C:\Program Files\Dallas Semiconductor\1-Wire Drivers Ve	ersion 4.00\ Browse
	Disk Cost
Install 1-Wire Drivers for yourself, or for anyone who uses th	nis computer:
O Everyone	
• Just me	
Cancel	< Back

The following window appears. Click on the "Next" button.

🙀 1-Wire Drivers			
Confirm Installation			
The installer is ready to install 1-Wire Driv	ers on your compu	er.	
Click "Next" to start the installation.			
	Cancel	< <u>B</u> ack	<u>N</u> ext >

After a while, the following window appears. Click on the "OK" button.



After a while, the "1-Wire Net Port Selection" window appears. Keep this window without clicking on the "Next" button. (You will click on the "Next" button later.)

1-Wire Net Port Selection		×
	This installation will now request you to select the default 1-Wire Net port. The default 1-Wire Net port will be used as the initial port for communicating with iButtons with any iButton-TMEX application. You will be required to connect the adapter to the port of this PC to successfully compete the installation. On the following screen, first select the adapter type tab at the bottom. Then select the appropriate port number and then click 'NEXT >'. Auto-Detect is available if the adapter is unknown. Now proceed to the port selection screen by clicking on 'NEXT >'.	
	< Back [] Cancel	

Open Device Manager, right-click on the "Unknown device" icon under the "Other devices", then click on "Properties" to open the "Unknown device Properties" window. Click on the "Driver" tab and click on the "Update Driver..." button.

Unknown	device Propertie	5	? ×
General	Driver		
\diamond	Unknown device		
	Driver Provider:	Unknown	
	Driver Date:	Not available	
	Driver Version:	Not available	
	Digital Signer:	Not digitally signed	
the driv		or have been loaded for this device. To unins e, click Uninstall. To update the driver files fo iver.	or
		OK Can	cel



The following window appears. Click on the "Next" button.

The following window appears. Check the "Display a list of the known drivers for this device so that I can choose a specific driver" radio button, then click on the "Next" button.

Upgrade Device Driver Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
O Search for a suitable driver for my device (recommended)
 Display a list of the known drivers for this device so that I can choose a specific driver
< <u>B</u> ack <u>N</u> ext > Cancel

The following window appears. Click on "Other devices", then click on the "Next" button.

Upgrade Device Driver Wizard			
Hardware Type What type of hardware do you want to instal	1?		
Select a hardware type, and then click Next. <u>H</u> ardware types:			
 Other devices PCMCIA adapters PCMCIA and Flash memory devices Ports (COM & LPT) Printers SCSI and RAID controllers Sound, video and game controllers System devices Tape drives 			×
	< <u>B</u> ack	<u>N</u> ext >	Cancel

The following window appears. Click on "USB Host Adapter for 1-Wire Network", then click on the "Next" button

Upgrade Device Driver Wizard		
Select a Device Driver Which driver do you want to install for this	device?	
Select the manufacturer and model of y have a disk that contains the driver you	our hardware device and then click Next. If you I want to install, click Have Disk.	
Models: USB Host Adapter for 1-Wire Network		
 Show compatible hardware Show all hardware of this device class 	<u>H</u> ave Disk	
	< <u>B</u> ack <u>N</u> ext> Cancel	

The following window appears. Click on the "Next" button.

Upgrade Device Driver Wizard
Start Device Driver Installation Example The device driver will be installed with the default settings. Image: Comparison of the setting
The wizard is ready to install the driver for the following hardware device: USB Host Adapter for 1-Wire Network
Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.
< <u>B</u> ack <u>Next</u> > Cancel

After completion of the upgrade, the following window appears. Click on the "Finish" button to complete the update process.



Back to the "1-Wire Net Port Selection" window, and click on the "Next" button.



The following window appears. Click on the "Next" button.

选 1-Wire Net Port Selectio	n		X
	Port Selection		
	PC Port Type:	USB	
	Adapter Required:	DS9490	
	Port Number:	1	
	Driver Info		
	Version:	V3.22	
and the second	Release Date:	06/17/05	
	Misc:	(IB90USB.DLL) (C00.54	
4 /			
DS9097E (DS1410E (DS9097U) DS9490 /			
<u>Auto-Detect</u>	< <u>B</u> ack	<u>Next></u> Cancel	

When the following window appears, click on the "Close" button to complete the installation.

🙀 1-Wire Drivers			
Installation Complete			
1-Wire Drivers has been successfully in:	stalled.		
Click "Close" to exit.			
	Cancel	< <u>B</u> ack	

Open Device Manager to confirm the iButton has been installed. Make sure that "USB Host Adapter for 1-Wire Network" is registered under the "1-WireDevices" icon.

🚇 Device Manager	
] <u>A</u> ction <u>Vi</u> ew] ← → 📧 😭 😫 🧟 🙇 🔀	
 TEC-707D532533E 1-Wire Devices Computer Disk drives Floppy disk controllers Floppy disk controllers Keyboards Mice and other pointing devices Monitors Network adapters Other devices Ports (COM & LPT) Sound, video and game controllers System devices Universal Serial Bus controllers 	

Note: To use the RAID, subsequently install the RAID Utility with reference to Section 6.3 Installation of RAID Utility JMB36X RAID CONFIGURER.

3. Setup for Windows XP(or WEPOS, POSReady 2009)

3.1. Installation for Operating System (Windows XP, WEPOS, POSReady 2009)

Install Windows XP(or WEPOS, POSReady 2009). And Install Windows XP service pack as needed.

Notes: To use the RAID, the RAID must be built using the RAID BIOS Utility with reference to Section 6.1 Creation of RAID from RAID BIOS Menu.

To use the RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

Notes: To use the two HDDs without using RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

3.2. Installation for Intel Chipset Software

Run "infinst_autol.exe" in the "ST-A20\Intel\Chipset\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

tel® Chipset	Device Software			
Intel® Cl Setup Prog	and an about	ce Software		intel
Please wait while	e the following setup	operations are perform	ed:	
Version: 8.2.0. Installing Driver Version: 8.2.0. Installing Driver Version: 8.2.0.	1008 : Intel(R) 82801G (IC 1008 : Intel(R) 82801G (IC 1008 : Intel(R) 82801G (IC	CH7 Family) USB Univer CH7 Family) USB Univer	sal Host Controller - 27C9 sal Host Controller - 27C4 sal Host Controller - 27C8 nced Host Controller - 27(
Click Next to co	ntinue.			~
			Ē	<u>N</u> ext
			Intel® Installatio	n Framework

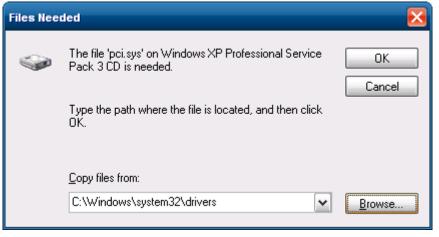
When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



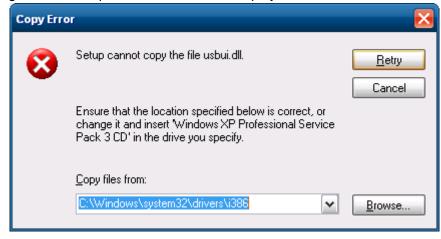
Note: Installation of chipset driver for POSReady 2009

In the case of POSReady 2009, "*.sys" file or "*.dll" file is requested and the screen that request to insert "Windows XP Service Pack 3 CD" is displayed several times. Please set the path for the location of "*.sys" file or "*.dll" file each time. When "*.sys" file is requested -> Set the path to "c:\windows\system32\drivers" When "*.dll" file is requested -> Set the path to "c:\windows\system32"

The following screen to request "*.sys" file will be displayed several times.



The following screen to request "*.dll" file will be displayed several times.



Note: If "Additional Drivers" of "Optional Components" is installed additionally in POSReady 2009 installation, these screen is not displayed. (Refer to Notice 6.1.3)

3.3. Installation for Intel Graphic Accelerator Driver

3.3.1. Installation

Run "win2k_xp14324.exe" in the

"ST-A20\Intel\Graphic_driver\2000_XP_WEPOS_POSReady" folder in the Driver Kit CD-ROM. The following window appears. Click on the "Next" button.

🛃 Intel(R) Chipset Graphic	cs Driver Software - InstallShield Wizard	×
	<pre>************************************</pre>	
	< Back Next > Cancel	

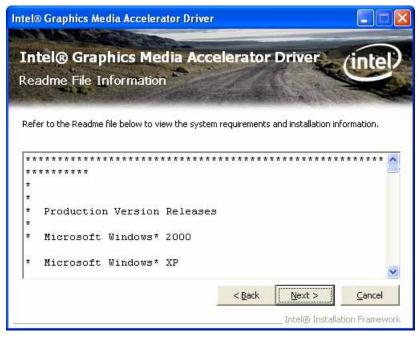
After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

ntel® Graphics Media Accelerator Driver	
Intel® Graphics Media Acco Setup Progress	elerator Driver
Please wait while the following setup operations ar Copying File: HDMIENU.dll Creating Key: HKLM\System\CurrentControlSet\C Creating Key: HKLM\System\CurrentControlSet\Se Creating Key: HKLM\SofTWARE\Microsoft\Windo Creating Key: HKLM\SOFTWARE\Microsoft\Windo Installing Driver: Mobile Intel(R) 945 Express Chip Version: 6.14.10.4926	ontrol\Windows\SystemDirectory=C:\WINDC ervices\ialm\Device0\SystemDirectory=C:\W ervices\ialm\Device1\SystemDirectory=C:\W ws\CurrentVersion\Uninstall\HDMI\DisplayNa ws\CurrentVersion\Uninstall\HDMI\UninstallS
Click Next to continue.	×
	Next
Version: 6.14.10.4926	⊻ Next

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



Open Device Manager to confirm the graphic driver has been installed. Make sure that "Mobile Intel(R)945 Express Chipset Family" is registered under the "Display adapters" icon.

🚇 Device Manager	
Eile <u>A</u> ction <u>V</u> iew <u>H</u> elp	
TEC-SAC08C94DAA Computer Disk drives Display adapters Mobile Intel(R) 945 Express Chipset Family Mobile Intel(R) 945 Express Chipset Family Mobile Intel(R) 945 Express Chipset Family DVD/CD-ROM drives DVD/CD-ROM drives DVD/CD-ROM drives Monitors Monitors Monitors Monitors Other devices Ports (COM & LPT) Processors Sound, video and game controllers System devices System devices Universal Serial Bus controllers	

3.3.2. Additional Setting When Connecting TFTST-A20

When using TFTST-A20, it is necessary to change setting as follows by Intel Graphic control panel.

Below is Intel Graphic Control Panel (From Task tray or Control Panel)

ntel [®] Graphics Media Accelerator Driver For mobile	🔙 Notebook a	nd Monitor	Scheme	e Options
Display Devices	Single Display	C Monitor		
Display Settings	C Television			
Color Correction	Multiple Display	Primary Device		
Hot Keys	 Intel(R) Dual 	Notebook 💌]	
(intel)	Display Clone Extended Desktop	Secondary Device Monitor		2
Launch Zoom	3D Settings			
Information	Video Overlay	/ ок	Cancel	Apply

Select [Display Devices] Tab and check "Extended Desktop" radio button. Click [Apply] button, then, TFTST-A20 available. 0.0

Intel® Graphics Media Accelerator Driver for mobile	🤳 Notebook	J Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	
Display Settings	Screen Resolution	800 x 600	 Enable Rotation © 0
Color Correction	Refresh Rate	60 Hertz	•
Hot Keys	Display Expansion	Options	90 C 🕍 C 270
intel			Power Settings
Launch Zoom	3D Settings		
Information	Video Overlay	/	

ntel [®] raphics Media ccelerator Driver or moblie	J Notebook	Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	Rotation
Display Settings	Screen Resolution	800 x 600	 Enable Rotation O
Color Correction	Refresh Rate	60 Hertz	• 90 ° <u>M</u> ° 270
Hot Keys	Display Expansion	Options	C 180
(intel)			Advanced Settings
Launch Zoom	3D Settings		
Information	Video Overlag	,	

About the other performance (Screen resolution, Color Quality, etc):

Please set TFTST-A20 for your environment by two Control Panel above at any time.

3.4. Installation for Intel Network Driver

Run "PRO2KXP.exe" in the "ST-A20\Intel\Lan_driver\2000_XP_WEPOS_POSReady" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.

📸 Intel(R) Network Connections - InstallShield Wizard	
Welcome to the InstallShield Wizard for Intel(R) Network Connections	(intel)
Installs drivers, Intel(R) PROSet for Windows* Device Manager, and Advanced Networking Services.	
WARNING: This program is protected by copyright law and international treaties.	
InstallShield	Cancel

The "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the license agreement" radio button and click on the "Next" button.

📸 Intel(R) Network Connections - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	
INTEL SOFTWARE LICENSE AGREEMENT (Final, License) <u>IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.</u> Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.	
LICENSES: Please Note:	~
I accept the terms in the license agreement Print I do not accept the terms in the license agreement	
InstallShield < <u>B</u> ack Cancel	

The "Setup Options" window appears. If nothing specially required, click on the "Next" button with default condition.

Intel(R) Network Connections	
Setup Options Select the program features you want installed.	(intel)
Install:	
Feature Description	Cancel

The following window appears. Click on the "Install" button to start the installation.

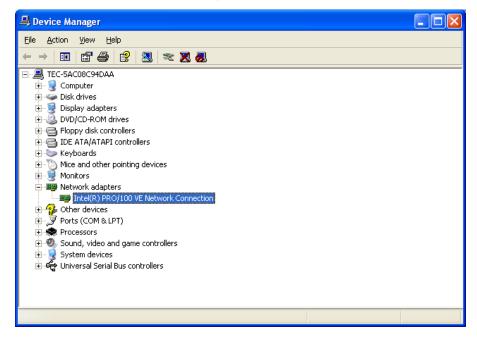
📸 Intel(R) Network Connections - InstallShield Wizard	
Ready to Install the Program The wizard is ready to begin installation.	(intel)
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Clic exit the wizard.	k Cancel to
InstallShield	Cancel

After completion of the installation, the following window appears.

Click on the "Finish" button to complete the installation.

🙀 Intel(R) Network Connections -	InstallShield Wi	zard	
InstallShield Wizard Completed			(intel)
To access new features, properties of the networ		er, and view the	
InstallShield	< <u>B</u> ack	Einish	Cancel

Open Device Manager to confirm the network driver has been installed. Make sure that "Intel (R)PRO/100 VE Network Connection" is registered under the "Network adapters" icon.



3.5. Installation for Realtek Audio Driver

Run "setup.exe" in the "ST-A20\Intel\Audio\2000_XP_WEPOS_POSReady" folder in the Driver kit CD-ROM. After a while, the following window appears, click on the "Next" button.

Realtek AC'97 Audio Setup	(5.36) 5.10.0.6287	×
	Welcome to the InstallShield Wizard for Realtek AC'97 Audio The InstallShield Wizard will install Realtek AC'97 Audio on your computer. To continue, click Next.	
InstallShield	< Back	:

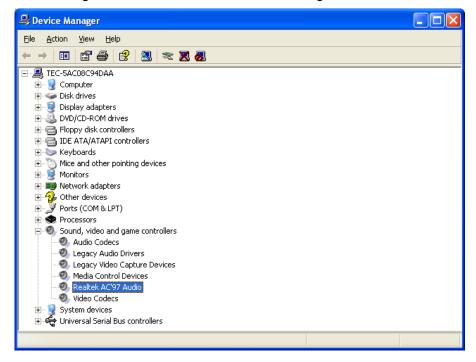
After a while, the following window appears. Click on the "Continue Anyway" button.

Hardwa	re Installation
<u>.</u>	The software you are installing for this hardware: Realtek AC'97 Audio has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now" radio button, then click on the "Finish" button to reboot your computer.

Realtek AC'97 Audio Setup (5.36) 5.10.0.6287			
	InstallShield Wizard Complete Setup has finished installing Realtek AC'97 Audio on your computer.		
	 Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup. 		
InstallShield	< <u>B</u> ack Finish Cancel		

Open Device Manager to confirm the audio driver has been installed. Make sure that "Realtek AC'97 Audio" is registered under the "Sound, video and game controllers" icon.

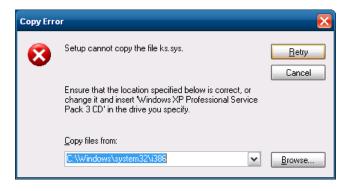


Note: Installation of audio driver for POSReady 2009

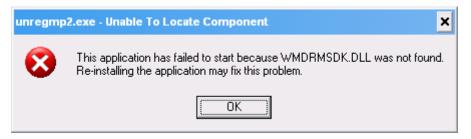
In the case of POSReady 2009, "*.sys" file or "*.dll" file is requested and the screen that request to insert "Windows XP Service Pack 3 CD" is displayed several times. Please set the path for the location of "*.sys" file or "*.dll" file each time.

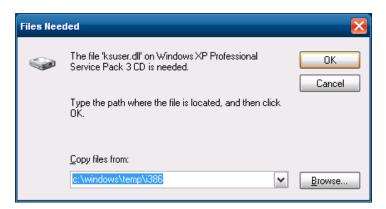
When "*.sys" file is requested -> Set the path to "c:\windows\system32\drivers" When "*.dll" file is requested -> Set the path to "c:\windows\system32"

The following screen to request "*.sys" file will be displayed several times.



The following screen to request "*.dll" file will be displayed several times.





Note: If "Additional Drivers" of "Optional Components" is installed additionally in POSReady 2009 installation, these screen is not displayed. (Refer to Notice 6.1.3)

3.6. Installation for EloTouch Panel Driver

3.6.1. Installation for Standard Model

Run "SW600613.exe" in the "ST-A20\Tablet\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. The following window appears. Click on the "OK" button.

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows XP/Windows Vista Installer.
Driver Version 4.8 (06-13-2008)
Click OK to continue.
[OK]

The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW6	00613.exe	
To unzip all files in SW600613.exe folder press the Unzip button.	to the specified	<u>U</u> nzip
Unzip to folder:		Run <u>W</u> inZip
ystems\Elo Universal Driver 480	<u>B</u> rowse	<u>C</u> lose
Overwrite files without prompting	,	About
✓ When done unzipping open: .\Elosetup.exe		Help

The following window appears. Click on the "OK" button.

The following window appears. Choose a language, if necessary, and then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		×
TOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.	
	Next > Cancel	

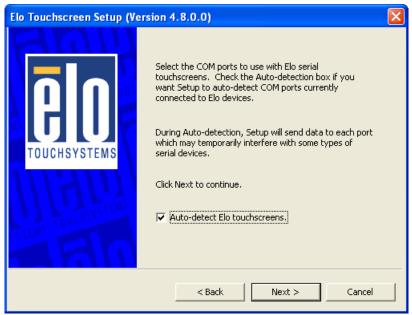
The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Ve	rsion 4.8.0.0)	×
TOUCHSYSTEMS	 Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Choose Enable PreCalibration to store calibration data in touch-monitors Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Enable PreCalibration 	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.0.0)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY. IMPORTANT READ CAREFULLY: This Elo TouchSystems	
End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.	
< Back No	

The following window appears. Check the "Auto-detect Elo devices" check box, then click on the "Next" button.



The following window appears. The touch panel connected to the ST-A20 is detected, and "COM6" is chosen. If "COM6" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
TOUCHSYSTEMS	COM1 COM2 COM3 COM4 COM5 COM6	
STOR TOHORDON	, Once you have selected a COM port, click Next to continue the installation.	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" is chosen, then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		
eln	You have selected the COM ports listed below to use with your touchmonitor.	
TOUCHSYSTEMS		
HEAL		
	Click Next to complete the installation or click Back to change your selections.	
	< Back Next > Cancel	

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Ver	sion 4.8.0.0)	×
G TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
NITERS TO CONSTITUT	Calibrate Elo Touchscreen monitors.	
	< Back	

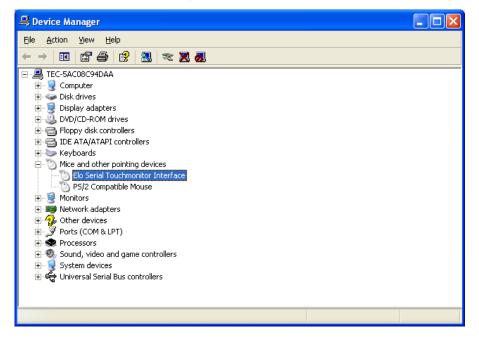
The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

Touch targets from position of normal use

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



3.6.2. Installation When Connecting TFTST-A20

Run "SW600613.exe" in the "ST-A20\Tablet\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. The following window appears. Click on the "OK" button.

WinZip Self-Extractor
Welcome to Elo Universal Driver for Windows XP/Windows Vista Installer.
Driver Version 4.8 (06-13-2008)
Click OK to continue.
(OK

The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW6	00613.exe	
To unzip all files in SW600613.exe folder press the Unzip button.	to the specified	<u>U</u> nzip
Unzip to folder:		Run <u>W</u> inZip
ystems\Elo Universal Driver 480	<u>B</u> rowse	<u>C</u> lose
☑	9	About
✓ When done unzipping open: .\Elosetup.exe		Help

The following window appears. Click on the "OK" button.

WinZip Self-Extractor 🛛 🔀
183 file(s) unzipped successfully
OK

The following window appears. Choose a language, if necessary, and then click on the "Next" button.

Elo Touchscreen Setup (Vers	sion 4.8.0.0)	×
TOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.	
	Next > Cancel	

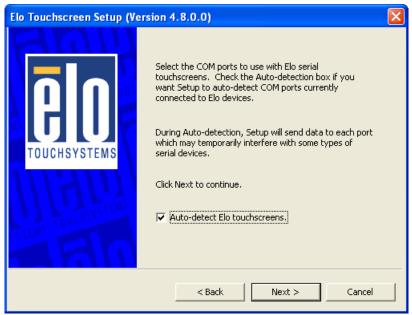
The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Ve	rsion 4.8.0.0)	×
	 Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Choose Enable PreCalibration to store calibration data in touch-monitors Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Enable PreCalibration 	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.0.0)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY. IMPORTANT READ CAREFULLY: This Elo TouchSystems	
End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.	
< Back No	

The following window appears. Check the "Auto-detect Elo devices" check box, then click on the "Next" button.



The following window appears. The touch panel connected to the ST-A20 and the touch panel connected to the TFTST-A20 are detected, and "COM6" and "COM1 or 2" are chosen. If "COM6" and "COM1 or 2" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Ve	ersion 4.8.0.0)	×
G C C C C C C C C C C C C C C C C C C C	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" and "COM1 or 2" are chosen, then click on the "Next" button.

Elo Touchscreen Setup (Ve	rsion 4.8.0.0)	×
BO TOUCHSYSTEMS	You have selected the COM ports listed below to use with your touchmonitor.	
STOR DUGDEN	l Click Next to complete the installation or click Back to change your selections.	
	< Back Next > Cancel	

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

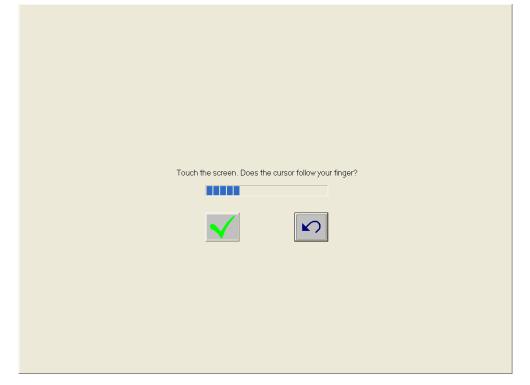
Elo Touchscreen Setup (Ver	sion 4.8.0.0)	×
BO TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
VISTONS TO HOLOWYSTERN	Calibrate Elo Touchscreen monitors.	
	< Back Finish	

The following calibration screen appears on ST-A20 main screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)

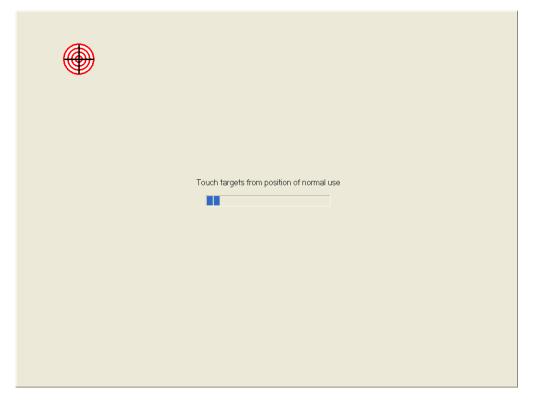
Touch targets from position of normal use

1

After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



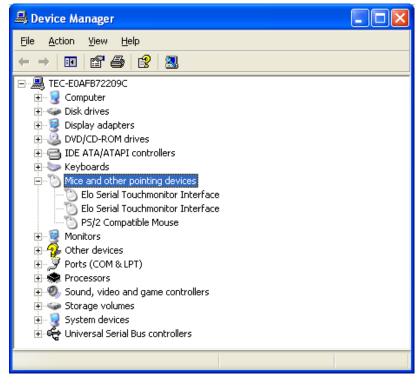
The following calibration screen appears on TFTST-A20 screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



3.7. Installation for i-Button Driver

When the iButton is connected to the ST-A20, "USB Device" is shown with an exclamation mark (!) under the "Other devices" icon in the Device Manager window.

🖳 Device Manager	
Elle Action View Help	
TEC-65087967785 Computer Disk drives Display adapters Display adapters	

Note : A confirmation of iButton device

Open Device Manager, right-click on the "USB device" icon, then click on "Properties" to open the "USB Device Properties" window. Click on the "Details" tab, confirm that there is "USB\VID_04FA&xxxxxxx".

USB Device Properties	? 🗙
General Driver Details	
USB Device	
Device Instance Id	~
USB\VID_04FA&PID_2490\6&15E10BA5&0&4	
OK Cano	:el

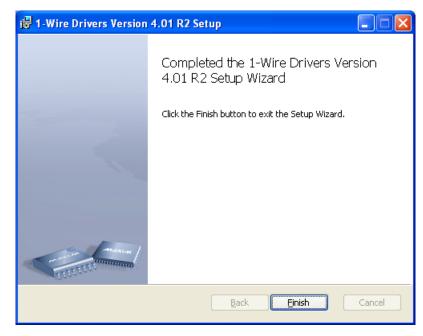
We can not redistribute this installation driver. Therefore, if you need the driver, you have to download the driver from following site. <u>http://www.maxim-ic.com/products/ibutton/software/tmex/</u> Note: This URL was written on 2008/7/30.

Run the "install_1_wire_drivers_x86_v401r2.msi" which you downloaded.

The "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the License Agreement" check box and click on the "Install" button.

🥵 1-Wire Drivers Version	4.01 R2 Setup
	Please read the 1-Wire Drivers Version 4.01 R2 License Agreement
	Copyright (C) 2008 Maxim A Integrated Products, All Rights Reserved.
	Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute,
TELETE MANAGEMENT	✓ I accept the terms in the License Agreement
C	Print Back Install Cancel

After completion of the installation, the following window appears. Click on the "Finish" button.



Open Device Manager to confirm the iButton has been installed. Make sure that "USB Host Adapter for 1-Wire Network using WinUSB" is registered under the "1-Wire" icon.

🚇 Device Manager	
<u>File Action View H</u> elp	
 TEC-SAC08C94DAA USB Host Adapter for 1-Wire Network using WinUSE Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Network adapters Other devices Ports (COM & LPT) Processors System devices System devices Universal Serial Bus controllers 	

Note: To use the RAID, subsequently install the RAID Utility with reference to Section 6.3 Installation of RAID Utility JMB36X RAID CONFIGURER.

4. Setup for Windows Vista Business

4.1. Installation for Operating System (Windows Vista Business)

Install Windows Vista. And install Windows Vista service pack as needed.

Notes: To use the RAID, the RAID must be built using the RAID BIOS Utility with reference to Section 6.1 Creation of RAID from RAID BIOS Menu.

To use the RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

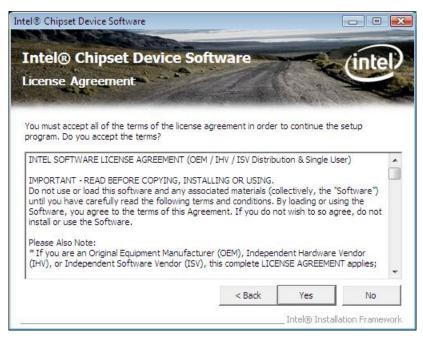
Notes: To use the two HDDs without using RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

4.2. Installation for Intel Chipset Software

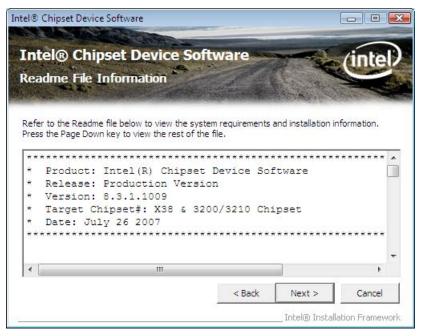
Run "infinst_autol.exe" in the "ST-A20\Intel\Chipset\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

intel®	Chipset Device Softwar	e
Please wait w	hile the following setup operations are perf	formed:
Copying File:		
	/: HKLM\SOFTWARE\Intel\Infinst\Language ver: Mobile Intel(R) 945GME Express Proces	
	1.1005	
	1.1005	
	1.1005	
Version: 8.3.	1.1005 III	
		Next

After the "Next" button changes to the status that you can click, click on the button.



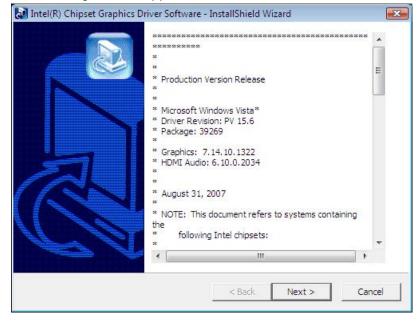
After completion of the installation, the following window appears. Click on the "Finish" button.



4.3. Installation for Intel Graphic Accelerator Driver

4.3.1. Installation

Run "winvista_1582.exe" in the "ST-A20\Intel\Graphic_driver\Vista" folder in the Driver Kit CD-ROM. The following window appears. Click on the "Next" button.



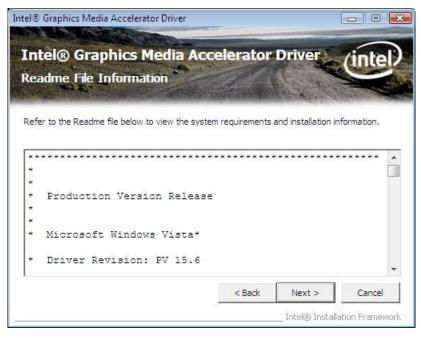
After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

	and the second division of the second divisio		-
ntel® Graphics Media	Accelerator	Driver	(intel
icense Agreement		12.14	
		A BASSING AND	AND
'ou must accept all of the terms of the licen	nse agreement in order	to continue th	e setup
rogram. Do you accept the terms?			
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distrib	ution & Single L	Jser) 🔺
IMPORTANT - READ BEFORE COPYING, IN			
			"Coffuere"
Do not use or load this software and any a until you have carefully read the following	associated materials (control terms and conditions.	By loading or u	ising the
Do not use or load this software and any a until you have carefully read the following Software, you agree to the terms of this A	associated materials (control terms and conditions.	By loading or u	ising the
Do not use or load this software and any a until you have carefully read the following Software, you agree to the terms of this A install or use the Software.	associated materials (control terms and conditions.	By loading or u	ising the
Do not use or load this software and any a until you have carefully read the following Software, you agree to the terms of this A install or use the Software. Please Also Note: * If you are an Original Equipment Manufa	associated materials (cr terms and conditions, greement. If you do n cturer (OEM), Indeper	By loading or u ot wish to so a ident Hardware	ising the igree, do not e Vendor
Do not use or load this software and any a until you have carefully read the following Software, you agree to the terms of this A install or use the Software. Please Also Note: * If you are an Original Equipment Manufa	associated materials (cr terms and conditions, greement. If you do n cturer (OEM), Indeper	By loading or u ot wish to so a ident Hardware	ising the igree, do not e Vendor
Do not use or load this software and any a until you have carefully read the following Software, you agree to the terms of this A install or use the Software. Please Also Note:	associated materials (cr terms and conditions, greement. If you do n cturer (OEM), Indeper	By loading or u ot wish to so a ident Hardware	ising the igree, do not e Vendor

The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

ntel® Graphics Media Accelerator Driver	
Intel® Graphics Media Acce Setup Progress	elerator Driver (intel)
Please wait while the following setup operations are Creating Key: HKLM\System\CurrentControlSet\Co Creating Key: HKLM\System\CurrentControlSet\Se Creating Key: HKLM\Svftm\AELWicrosoft\Windov Creating Key: HKLM\SOFTWARE\Microsoft\Windov Creating Key: HKLM\SOFTWARE\Microsoft\Windov Installing Driver: Mobile Intel(R) 945 Express Chips Version: 7.14.10.1322 Click Next to continue.	ontrol Windows \SystemDirectory =C: \Windo: rvices \alm \Device0 \SystemDirectory =C: \W vs(currentVersion \Uninstall \HDMI \DisplayNa vs \CurrentVersion \Uninstall \HDMI \DisplayNa vs \CurrentVersion \RunOnce \WinSat=winsat
< III	Next
×	Intel® Installation Framework

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



Open Device Manager to confirm the graphic driver has been installed. Make sure that "Mobile Intel(R)945 Express Chipset Family" is registered under the "Display adapters" icon.

🚔 Device Manager	
Elle Action View Help	
TEC-PC Image: Computer Image: Mobile Intel(R) 945 Express Chipset Family Image: Mobile Intel(R) 945 Express Image:	

4.3.2. Additional Setting When Connecting TFTST-A20

When using TFTST-A20, it is necessary to change setting as follows by Intel Graphic control panel.

Below is Intel Graphic Control Panel (From Task tray or Control Panel)

Graphics Media Accelerator Driver For mobile	🛃 Notebook a	nd Monitor	Scher	ne Options
Display Devices	Single Display	Notebook		
Display Settings				
Color Correction	Multiple Display	Primary Device		
Hot Keys	Display Clone Extended	Notebook 💌	-	1
(intel)	Desktop	Secondary Device Monitor	1	2
Launch Zoom	3D Settings			
Information	Video Overlay	1		

Select [Display Devices] Tab and check "Extended Desktop" radio button. Click [Apply] button, then, TFTST-A20 available.

ntel [®] Graphics Media Accelerator Driver For mobile	🌙 Notebook	J Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	 Rotation ✓ Enable Rotation
Display Settings	Screen Resolution	800 x 600	· · · · · · · ·
Color Correction	Refresh Rate		90 C 🔽 C 270
Hot Keys	Display Expansion		C 180
intel			Power Settings
Launch Zoom	3D Settings		
Information	Video Overlay	v	

Intel® Graphics Media Accelerator Driver for mobile	🤳 Notebook	Monitor	Scheme Options
Display Devices	Color Quality	32 Bit	Rotation
Display Settings	Screen Resolution	800 x 600	 Enable Rotation O
Color Correction	Refresh Rate		▪ 90 C 🔽 C 270
Hot Keys	Display Expansion		C 180
(intel)			Advanced Settings
Launch Zoom	3D Settings		
Information	Video Overla	v	

About the other performance (Screen resolution, Color Quality, etc):

Please set TFTST-A20 for your environment by two Control Panel above at any time.

4.4. Installation for Intel Network Driver

Run "PROVISTA32.exe" in the "ST-A20\Intel\Lan_driver\Vista" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.

HIntel(R) Network Connections - InstallShield Wizard	.
Welcome to the InstallShield Wizard for Intel(R) Network Connections	(intel)
Installs drivers, Intel(R) PROSet for Windows* Device Manager, and Advanced Networking Services.	
WARNING: This program is protected by copyright law and international treaties.	
InstallShield < Back	Cancel

The "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the license agreement" radio button and click on the "Next" button.

H Intel(R) Network Connections - InstallShield Wizard	×
License Agreement	3
Please read the following license agreement carefully.	er
INTEL SOFTWARE LICENSE AGREEMENT (Final, License) <u>IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.</u> Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.	
LICENSES: Please Note:	-
I accept the terms in the license agreement	
I do not accept the terms in the license agreement	
InstallShield	
< <u>B</u> ack Next > Cance	el 📄

The "Setup Options" window appears. If nothing specially required, click on the "Next" button with default condition.

Intel(R) Network Connections		
Setup Options Select the program features you want installe	d.	(intel)
Install:		
Drivers Intel(R) PROSet for Windows* Device Ma Advanced Network Services Intel(R) Network Connections SNMP Age		
Feature Description		
	< Back Next >	Cancel

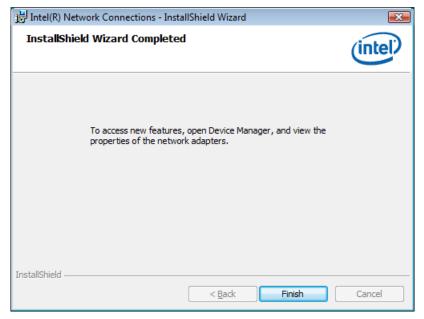
The following window appears. Click on the "Install" button to start the installation.

B Intel(R) Network Connections - InstallShield Wizard	
Ready to Install the Program The wizard is ready to begin installation.	(intel)
Click Install to begin the installation.	
If you want to review or change any of your installation settings, exit the wizard.	dick Back. Click Cancel to
InstallShield	
< Back I	nstall Cancel

The following window appears asking you to wait until the installation completes.

P	Please wait while the InstallShield Wizard installs Intel(R) Network Connections. This may take several minutes.
	Status:
nstallShield -	< Back Next > Cancel
ng Drivers	
lling	ork drivers for:

After completion of the installation, the following window appears. Click on the "Finish" button.

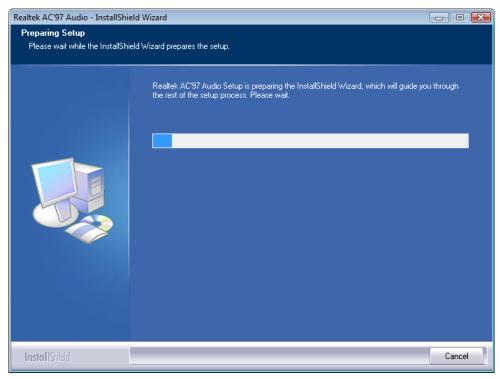


Open Device Manager to confirm the network driver has been installed. Make sure that "Intel (R)PRO/100 VE Network Connection" is registered under the "Network adapters" icon.

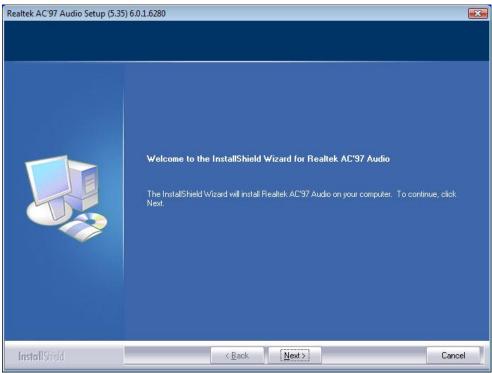
A Device Manager	
File Action View Help	
◆ ◆ □ □ ■ □ R ■ A ■ A	
Image: TEC-PC Image: Tec-PC <td< th=""><th></th></td<>	

4.5. Installation for Realtek Audio Driver

Run "setup.exe" in the "ST-A20\Intel\Audio\Vista" folder in the Driver kit CD-ROM, and the installer starts.



After a while, the following window appears. Click on the "Next" button.



After a while, the following window appears. This is a security notice of Windows. Click on the "Install this driver software anyway" button.

Wir	Windows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
• ا	See <u>d</u> etails

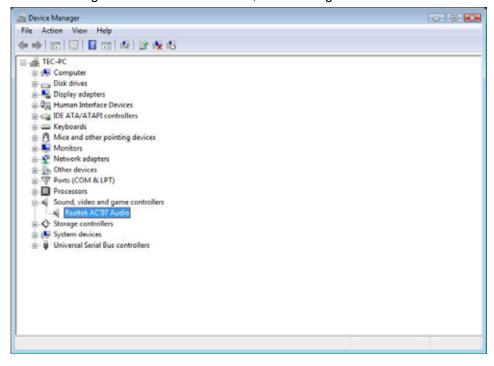
After a while, the installation starts.

Realtek AC'97 Audio Setup (5.35) (Setup Status	5.0.1.6280
	Realtek AC'97 Audio is configuring your new software installation.
	Installing
InstallShield	Cancel

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now" radio button, then click on the "Finish" button to reboot your computer.

Realtek AC'97 Audio Setup (5.35	i) 6.0.1.6280
	InstallShield Wizard Complete Setup has finished installing Realtek AC'97 Audio on your computer.
	 Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	Kancel

Open Device Manager to confirm the audio driver has been installed. Make sure that "Realtek AC'97 Audio" is registered under the "Sound, video and game controllers" icon.

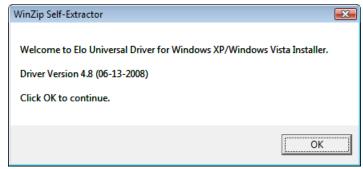


4.6. Installation for Elo Touch Panel Driver

4.6.1. Installation for Standard Model

Open the "ST-A20\Tablet\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. Right-click on the "SW600613.exe" icon, and select "Run as administrator" menu. The following window appears. Click on the "OK" button.

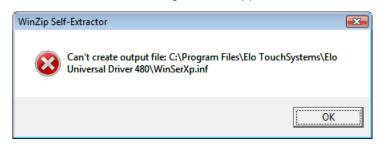
Note: If you forget it, the installation will not be completed.



The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW600613.exe	—
To unzip all files in SW600613.exe to the specified folder press the Unzip button.	<u>U</u> nzip
Unzip to folder:	Run <u>₩</u> inZip
Bystems\Elo Universal Driver 480 Browse	<u>C</u> lose
✓ <u>□</u> verwrite files without prompting	About
When done unzipping open: .\Elosetup.exe	Help

Note: If you forget to run the installer as an administrator, writing to the system area is limited and the installation fails. Then, the following window appears.



The following window appears. Click on the "OK" button.

WinZip Self-Extractor	×
183 file(s) unzipped success	fully
	ОК

The following window appears. Choose a language, if necessary, and then click on the "Next" button.



The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version 4	.8.0.0)	×
G TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Choose Enable PreCalibration to store calibration data in touch-monitors Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Enable PreCalibration	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.0.0)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to se the rest of the agreement.	ee
End-User License Agreement	*
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.	
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a	Ŧ
Do you accept the terms of the preceding license agreement? If you choose No, you w not have full touchmonitor functionality and setup will dose. To have full functionallity you must accept the license agreement.	rill
< Back [No	

The following window appears. Check the "Auto-detect Elo devices" check box, and click on the "Next" button.



The following window appears. The touch panel connected to the ST-A20 is detected, and "COM6" is chosen. If "COM6" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		X
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
	COM1 COM2 COM3 COM4 COM5 COM5	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" is chosen, then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		×
	You have selected the COM ports listed below to use with your touchmonitor.	
TOUCHSYSTEMS	COM6	
VSTONS TOWORD	, Click Next to complete the installation or click Back to change your selections.	
	< Back Cancel	

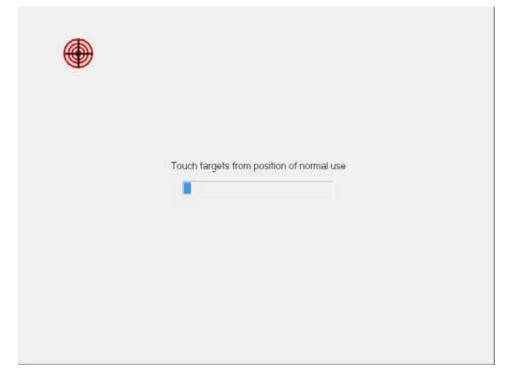
After a while, the installation starts.

Elo Touchscreen Setup (Version 4.8.0.0)		
Installing Elo Touchscreen drivers and components Copying files		

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version 4	.8.0.0)	X
BO TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen drivers and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	
VILLES TRUCTORY (TILLE)	Click Finish to exit Setup.	
	< Back Finish	

The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



If the "Files Needed" window appears during installation, click "Browse" button and select "C:\Program Files\EloTouchSystems" folder. Then click on the "OK" button.

Files Need	led	×
	The file 'EloSer.Sys' on EloSerXp is needed.	ОК
		Cancel
	Type the path where the file is located, and then click OK.	
	<u>C</u> opy files from:	
	c:\windows	Browse

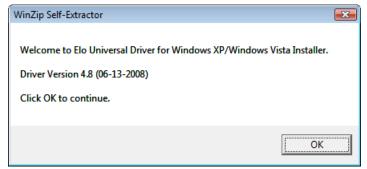
Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.

a Device Manager	
File Action View Help	
♦ ♦ III [] [] II	
 TEC-PC Computer Disk drives Display adaptes Human Interface Devices IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Monitors Network adapters Monitors Network adapters Other devices Processors Sound, video and game controllers Storage controllers System devices Universal Serial Bus controllers 	

4.6.2. Installation When Connecting TFTST-A20

Open the "ST-A20\Tablet\XP_WEPOS_POSReady_Vista" folder in the Driver Kit CD-ROM. Right-click on the "SW600613.exe" icon, and select "Run as administrator" menu. The following window appears. Click on the "OK" button.

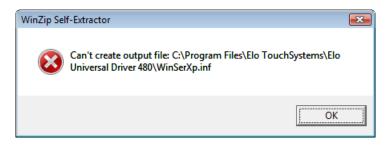
Note: If you forget it, the installation will not be completed.



The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - SW600613.exe	X
To unzip all files in SW600613.exe to the specified folder press the Unzip button.	<u>U</u> nzip
Unzip to folder:	Run <u>₩</u> inZip
Bystems\Elo Universal Driver 480 Browse	<u>C</u> lose
✓ Overwrite files without prompting	About
✓ When done unzipping open: .\Elosetup.exe	<u>H</u> elp

Note: If you forget to run the installer as an administrator, writing to the system area is limited and the installation fails. Then, the following window appears.



The following window appears. Click on the "OK" button.

WinZip Self-Extractor	×
183 file(s) unzipped succ	essfully
	ОК

The following window appears. Choose a language, if necessary, and then click on the "Next" button.



The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version 4	.8.0.0)	×
G TOUCHSYSTEMS	Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USB touchscreen drivers on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Choose Enable PreCalibration to store calibration data in touch-monitors Install Serial Touchscreen Drivers Install USB Touchscreen Drivers Enable PreCalibration	
	< Back Next > Cancel	

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.0.0)	×
License Agreement Please read the following license agreement carefully, Press the PAGE DOWN key to se the rest of the agreement.	e
End-User License Agreement	^
BY DOWNLOADING AND/OR INSTALLING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.	
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a	Ŧ
Do you accept the terms of the preceding license agreement? If you choose No, you w not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.	rill
< Back Yes No	

The following window appears. Check the "Auto-detect Elo devices" check box, and click on the "Next" button.



The following window appears. The touch panel connected to the ST-A20 and the TFTST-A20 are detected, and "COM6" and "COM1 or 2" are chosen. If "COM6" and "COM1 or 2" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Version 4	1.8.0.0)	×
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.	
	COM1 COM2 COM3 COM4 COM5 COM5 COM6 Once you have selected a COM port, click Next to continue the installation.	
	< Back Next > Cancel	

The following window appears. Confirm that "COM6" and "COM1 or 2" are chosen, then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.0.0)		X
	You have selected the COM ports listed below to use with your touchmonitor.	
TOUCHSYSTEMS	COM2 COM6	
WIDES TOUCOUP	Click Next to complete the installation or click Back to change your selections.	
	< Back Cancel	

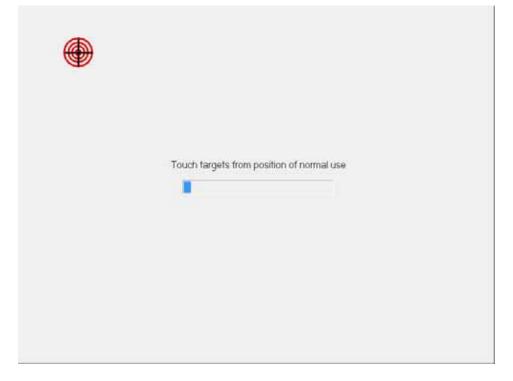
After a while, the installation starts.

Elo Touchscreen Setup (Version 4.8.0.0)				
Installing Elo Touchscreen drivers and components Copying files				

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version 4.8.0.0)				
Setup Complete Setup has finished installing the Elo touchscreen driver and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.				
Click Finish to exit Setup.	itors.			
< Back	h			

The following calibration screen appears on ST-A20 main screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



The following calibration screen appears on TFTST-A20 screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



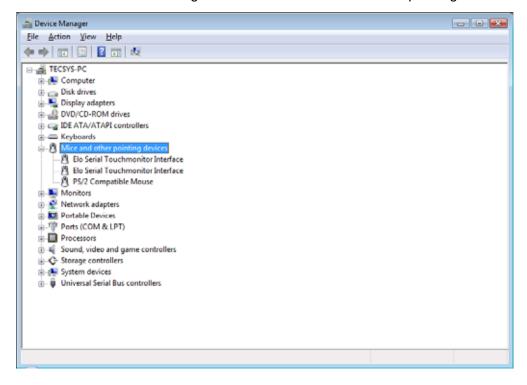
After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



If the "Files Needed" window appears during installation, click "Browse" button and select "C:\Program Files\EloTouchSystems" folder. Then click on the "OK" button.

Files Need	ed	×
	The file 'EloSer.Sys' on EloSerXp is needed.	ОК
		Cancel
	Type the path where the file is located, and then click OK.	
	<u>C</u> opy files from:	
	c:\windows	Browse

Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



4.7. Installation for i-Button Driver

When the iButton is connected to the ST-A20, "Unknown Device" is shown with an exclamationmark (!) under the "Other devices" icon in the Device Manager window.

Device Manager	
File Action View Help	
♦ ♦ [10]	
E TEC-PC	
B Cost drives	
Display adapters	
E the Floppy disk drives	
General Floppy drive controllers	
G IDE ATA/ATAPI controllers	
Keyboards	
⊕- ^B Mice and other pointing devices	
🕞 🜉 Monitors	
⊕	
B-B Other devices	
- Ja Unknown device	
Ports (COM & LPT)	
Processors	
Sound, video and game controllers	
General Storage controllers	
🕀 🐢 System devices	
Universal Serial Bus controllers	
1	

Note : A confirmation of iButton device

Open Device Manager, right-click on the "Unknown device" icon, then click on "Properties" to open the "Unknown device Properties" window. Click on the "Details" tab, confirm that there is "USB\VID_04FA&xxxxxxx".

Unknown device Properties	8
General Driver Details	
Unknown device Property	
Hardware Ids	•
Value	
USB\VID_04FA&PID_2490	
	OK Cancel

We can not redistribute this installation driver. Therefore, if you need the driver, you have to download the driver from following site. <u>http://www.maxim-ic.com/products/ibutton/software/tmex/</u> Note: This URL was written on 2008/7/30.

Run the "install_1_wire_drivers_x86_v401r2.msi" which you downloaded.

After a while, the "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the License Agreement" check box and click on the "Install" button.

🛃 1-Wire Drivers Version 4.01	R2 Setup	x
	Please read the 1-Wire Drivers Version 4.01 R2 License Agreement	
	Copyright (C) 2008 Maxim Integrated Products, All Rights Reserved.	
	Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute,	
TELETEL COMMUNICATION	▼I accept the terms in the License Agreement;	
	Print Back Install Cancel	

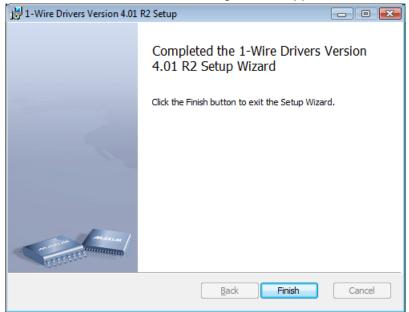
After a while, the following window appears. This is a security notice of Windows system. Click on the "Install" button.

• Windows Security	x
Would you like to install this device software?	
Name: Dallas Semiconductor Maxim Publisher: Dallas Semiconductor Maxim	
Always trust software from "Dallas Semiconductor Install Don't Install Don't Install	
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?	

After a while, the installation starts.

討1-Wire Drivers Version 4.01 R2 Setup	- • •
Installing 1-Wire Drivers Version 4.01 R2	
Please wait while the Setup Wizard installs 1-Wire Drivers Vers	ion 4.01 R2.
Status:	
Back	ext Cancel

After completion of the installation, the following window appears. Click on the "Finish" button.



Next, we explain the method of updating driver from device manager.

Open Device Manager, right-click on the "USB Host Adapter for 1-Wire Network using WinUSB" icon under the "1-Wire", then click on "Properties" to open the "USB Host Adapter for 1-Wire Network using WinUSB Properties" window.

Device Manager	0.0
File Action View Help	
**\D	
TEC-PC TEC-PC TEC-PC Technology Technolo	

Click on the "Details" tab, and confirm that it is same as following window.

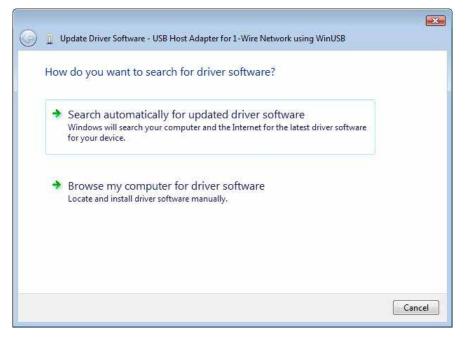
General Driver	Details	
USB H	Host Adapter for 1-Wire Ne	twork using WinUSB
Property		
Device descrip	tion	-
Value		

neral Driver Details	
USB Host Adap	ter for 1-Wire Network using WinUSB
Driver Provider:	Dallas Semiconductor Maxim
Driver Date:	5/1/2007
Driver Version:	6.0.1.0
Digital Signer:	dallas semiconductor maxim
Driver Details	To view details about the driver files.
Update Driver	To update the driver software for this device.
Roll Back Driver	If the device fails after updating the driver, ro back to the previously installed driver.
Disable	Disables the selected device.
Uninstall	To uninstall the driver (Advanced).

Click on the "Driver" tab, and click on the "Upate Driver..." button.

After a while, the "How do you want to search for driver software" window appears. Click on the "Browse my computer for driver software" button.

Note : If you install it from the media(CD etc.), appoint a media drive path in the search range.



Note: To use the RAID, subsequently install the RAID Utility with reference to Section 6.3 Installation of RAID Utility JMB36X RAID CONFIGURER.

5. Setup for Windows 7 Professional 5.1. Setup for Operating System (Windows 7 Professional) 5.1.1. Installation for Operating System (Windows 7 Professional)

Install Windows Vista. And install Windows Vista service pack as needed.

Notes: To use the RAID, the RAID must be built using the RAID BIOS Utility with reference to Section 6.1 Creation of RAID from RAID BIOS Menu.

To use the RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

Notes: To use the two HDDs without using RAID, the operation system must be installed with reference to Section 6.2 Installation of Each Operating System in RAID Environment.

5.1.2. About User Account Control of Operating System (Windows 7 Professional)

Windows 7 is equipped with User Account Control. (UAC)

When installing any software to the POS, the administrative user have to allow that the software is installed to the POS.

When the following window appeared, push the "Yes" button and continue installation.

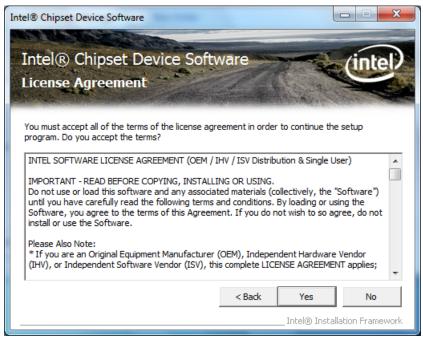


5.2. Installation for Intel Chipset Software

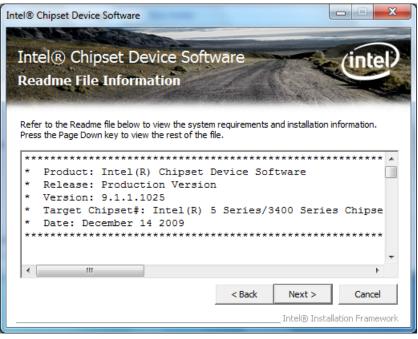
Run "infinst_autol.exe" in the "ST-A20\Intel\Chipset\7" folder in the Driver Kit CD-ROM. After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation. Please wait. After the "Next" button changes to the status that you can click, click on the button.



When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



5.3. Installation for Intel Graphic Accelerator Driver

5.3.1. Installation

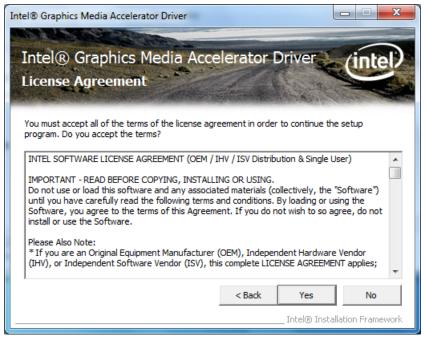
Run "win7_1512754.exe" in the "ST-A20\Intel\Graphic_driver\7" folder in the Driver Kit CD-ROM. The following window appears. Click on the "Next" button.

Production Version Release Microsoft Windows* 7 Driver Revision: 15.12.75.4.1930 October 02, 2009 ************************************

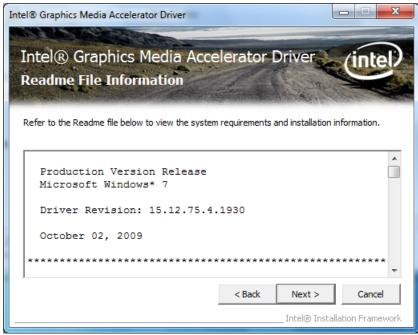
After a while, the following window appears. Click on the "Next" button.



The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.



The "Readme File Information" window appears. Click on the "Next" button.



The "Setup Progress" window appears, and starts the installation.

After the "Next" button changes to the status that you can click, click on the button.

Intel® Graphics Media Accelerator Driver	-
Intel® Graphics Media Accelerator Driver Setup Progress	intel
Please wait while the following setup operations are performed:	
Creating Key: HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\HDMI\ Creating Key: HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\RunOnce\WinSa Installing Driver: Mobile Intel(R) 945 Express Chipset Family Version: 8. 15. 10. 1930	NoRepair VersionMa VersionMii DisplayVe
Click Next to continue.	
	Next
Intel® Installatio	n Framework

When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart this computer now" radio button, then click on the "Finish" button to reboot your computer.



Open Device Manager to confirm the graphic driver has been installed. Make sure that "Mobile Intel(R)945 Express Chipset Family" is registered under the "Display adapters" icon.

A Device Manager
File Action View Help
▲ tecsys-PC ▷ · 1 Computer ▷ · □ Disk drives
 Display adapters Mobile Intel(R) 945 Express Chipset Family IDE ATA/ATAPI controllers Keyboards Mice and other pointing devices
 Monitors Metwork adapters Other devices Ports (COM & LPT) Processors
System devices Image: System devic

5.3.2. Additional Setting When Connecting TFTST-A20

When using TFTST-A20, it is necessary to change setting as follows by Intel Graphic control panel.

Below is Intel Graphic Control Panel (From Task tray or Control Panel)

Intel [®] Graphics Media Accelerator Driver for mobile	🐖 Notebook and Monitor	
Display Devices	Operating Mode	Position
	Extended Desktop	
Display Settings	Display Selection	
Color Correction	Primary Device	1 2
Hot Keys	Notebook	
(intel)	Secondary Device Monitor	•
3D Settings		K Cancel Apply
Scheme Options		

Select [Display Devices] Tab and select "Extended Desktop" pull-down menu. Click [Apply] button, then, TFTST-A20 available.

ality 32 Bit	- Rotation	
Resolution 1024 x 7		le Rotation © 0
	: - 90 (° 🔟 ° 270
Aspect Ratio Options		° 180
		Power Settings
/ideo Overlay	ОК Са	ncel Apply
	Rate 60 Hertz	Rate 60 Hertz Expansion Aspect Ratio Options OK Ca

iraphics Media Accelerator Driver for mobile	🕵 Notebook	😴 Monitor	
Display Devices	Color Quality	32 Bit	■ Rotation ■ Enable Rotation
Display Settings	Screen Resolution	1024 x 768	
Color Correction	Refresh Rate	60 Hertz	90 C 🔽 C 270
Hot Keys	Display Expansion	Options	G 180
(intel)			Advanced Settings
3D Settings	Video Overlaj	/ ОК	Cancel Apply
Scheme Options			

About the other performance (Screen resolution, Color Quality, etc):

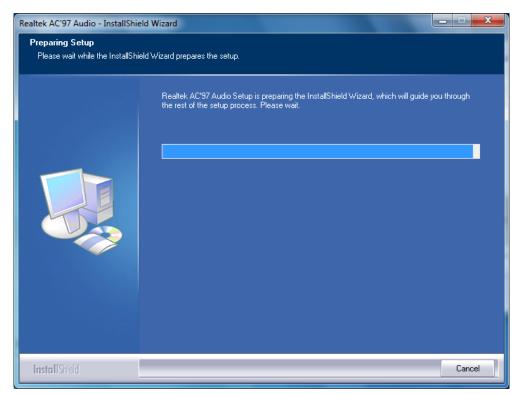
Please set TFTST-A20 for your environment by two Control Panel above at any time.

5.4. Installation for Intel Network Driver

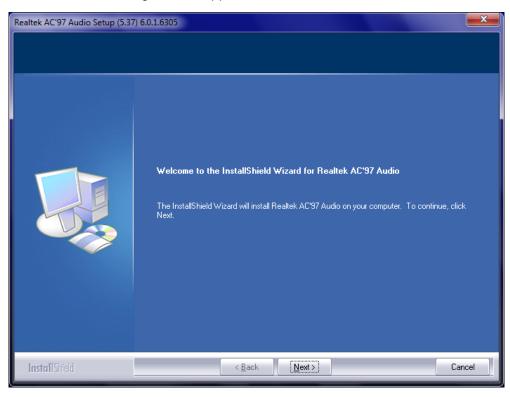
In windows 7 environment, driver of ST-A20's network adapter is already included in OS itself. Therefore, we don't need to install the driver of network adapter manually.

5.5. Installation for Realtek Audio Driver

Run "setup.exe" in the "ST-A20\Intel\Audio\Vista" folder in the Driver kit CD-ROM, and the installer starts.



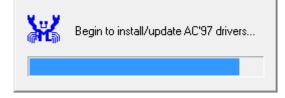
After a while, the following window appears. Click on the "Next" button.



After a while, the following window appears. This is a security notice of Windows. Click on the "Install this driver software anyway" button.

😵 Win	dows Security
8	Windows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
💌 s	ee details

After a while, the installation starts.



When the installation is completed successfully, the following window appears. Check the "Yes, I want to restart my computer now" radio button, then click on the "Finish" button to reboot your computer.

Realtek AC'97 Audio Setup (5.37)	6.0.1.6305
	InstallShield Wizard Complete
	Setup has finished installing Realtek AC'97 Audio on your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	< Back Finish Cancel

Open Device Manager to confirm the audio driver has been installed. Make sure that "Realtek AC'97 Audio" is registered under the "Sound, video and game controllers" icon.

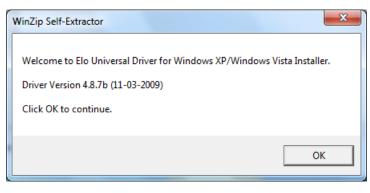
🚔 Device Manager	x
File Action View Help	
 tecsys-PC Computer Disk drives Display adapters DE ATA/ATAPI controllers Keyboards Keyboards Mice and other pointing devices Monitors Network adapters Other devices Ports (COM & LPT) Processors Sound, video and game controllers System devices Vitersal Serial Bus controllers 	

5.6. Installation for Elo Touch Panel Driver

5.6.1. Installation for Standard Model

Open the "ST-A20\Tablet\7" folder in the Driver Kit CD-ROM. Right-click on the "XPU4.8.7b.exe" icon, and select "Run as administrator" menu. The following window appears. Click on the "OK" button.

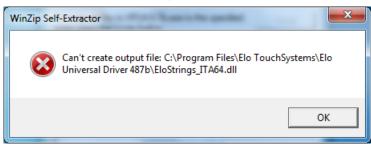
Note: If you forget it, the installation will not be completed.



The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - XPU4.8.7b	.exe	×
To unzip all files in XPU4.8.7b.exe to folder press the Unzip button.	o the specified	Unzip
Unzip to folder:		Run WinZip
vstems\Elo Universal Driver 487b	Browse	Close
Verwrite files without prompting	ļ	About
✓ When done unzipping open: .\Elosetup.exe		Help

Note: If you forget to run the installer as an administrator, writing to the system area is limited and the installation fails. Then, the following window appears.



The following window appears. Click on the "OK" button.

WinZip Self-Extractor	x
179 file(s) unzipped	d successfully
	ОК

The following window appears. Choose a language, if necessary, and then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.7b)	
BO TOUCHSYSTEMS	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.
	Default
Next > Cancel	

The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.7b)	
Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USE touchscreen drivers on your computer. It is so recommended that you exit all Windows program. Touchsystems Install Serial Touchscreen Drivers Install USB Touchscreen Drivers	strongly
< Back Next >	Cancel

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.7b)	×
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement	
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionality you must accept the license agreement.	
< Back Yes No	

The following window appears. Check the "Auto-detect Elo devices" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version	Elo Touchscreen Setup (Version 4.8.7b)	
TOUCHSYSTEMS	Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue.	
	< Back Next > Cancel	

The following window appears. The touch panel connected to the ST-A20 is detected, and "COM6" is chosen. If "COM6" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Version	4.8.7b)
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
	COM1 COM2 COM2 COM3 COM4 COM5 ✓ COM6 COM6 Once you have selected a COM port, click Next to continue the installation.
	< Back Next > Cancel

The following window appears. Confirm that "COM6" is chosen, then click on the "Next" button.

Elo Touchscreen Setup (Version	n 4.8.7b)
BO TOUCHSYSTEMS	You have selected the COM ports listed below to use with your touchmonitor.
NOTIONS TRANSPORTED	I Click Next to complete the installation or click Back to change your selections.
	< Back Next > Cancel

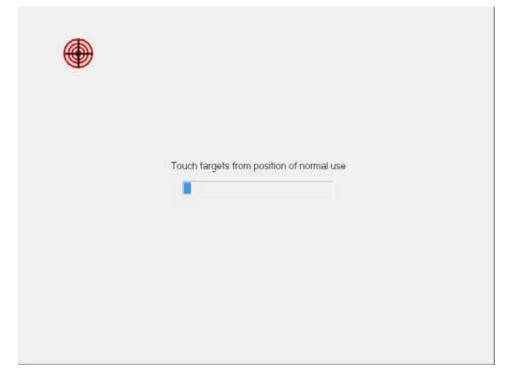
After a while, the installation starts.

Installing Elo Touchscreen drivers and components Copying files

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version 4	.8.7ь)	×
BO TOUCHSYSTEMS	Setup Complete Setup has finished installing the Elo touchscreen driv and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	vers
THIO DEVOLUTION	Calibrate Elo Touchscreen monitors.	
TO THE REAL	Click Finish to exit Setup.	
	< Back Finish	

The following calibration screen appears. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



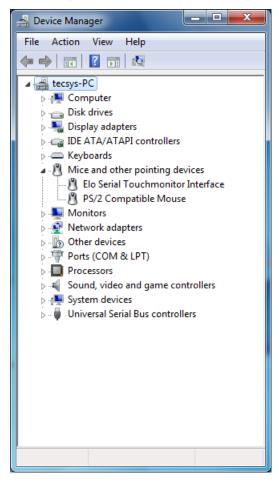
After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



If the "Files Needed" window appears during installation, click "Browse" button and select "C:\Program Files\EloTouchSystems" folder. Then click on the "OK" button.

Files Need	led	×
	The file 'EloSer.Sys' on EloSerXp is needed.	ОК
		Cancel
	Type the path where the file is located, and then click OK.	
	<u>C</u> opy files from:	
	c:\windows	Browse

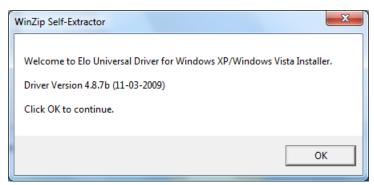
Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



5.6.2. Installation When Connecting TFTST-A20

Open the "ST-A20\Tablet\7" folder in the Driver Kit CD-ROM. Right-click on the "XPU4.8.7b.exe" icon, and select "Run as administrator" menu. The following window appears. Click on the "OK" button.

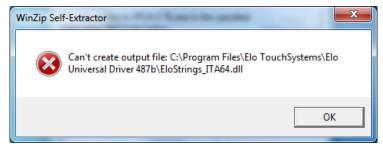
Note: If you forget it, the installation will not be completed.



The following window appears. Click on the "Unzip" button, then the files are decompressed.

WinZip Self-Extractor - XPU4.8.7b.exe	x
To unzip all files in XPU4.8.7b.exe to the specified folder press the Unzip button.	Unzip
Unzip to folder:	Run WinZip
vstems\Elo Universal Driver 487b Browse	Close
✓ Overwrite files without prompting	About
When done unzipping open: .\Elosetup.exe	Help

Note: If you forget to run the installer as an administrator, writing to the system area is limited and the installation fails. Then, the following window appears.



The following window appears. Click on the "OK" button.

WinZip	Self-Extractor	J
179 fi	e(s) unzipped successfully	
	ОК	

The following window appears. Choose a language, if necessary, and then click on the "Next" button.

Elo Touchscreen Setup (Version	4.8.7b)
elo	Pick the default language for the Elo Touchscreen Universal Driver package. All Elo touchscreen applications will be displayed in the language selected below.
TOUCHSYSTEMS	Default
	Next > Cancel

The following window appears. Check the "Install Serial Touchscreen Drivers" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.7b)	×
Welcome to Elo Touchscreen Setup. This program will install the Elo Serial and USI touchscreen drivers on your computer. It is a recommended that you exit all Windows program. TOUCHSYSTEMS Install Serial Touchscreen Drivers Install USB Touchscreen Drivers	strongly
< Back Next >	Cancel

The "License Agreement" window appears. Confirm the contents. If you agree, click on the "Yes" button.

Elo Touchscreen Setup (Version 4.8.7b)	
License Agreement Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
End-User License Agreement BY DOWNLOADING AND/OR INSTALLING AND/OR USING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY. IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal acreement between you (either an individual or a Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionality you must accept the license agreement.	
< Back Yes No	_

The following window appears. Check the "Auto-detect Elo devices" check box, and click on the "Next" button.

Elo Touchscreen Setup (Version	n 4.8.7b)
B B B B B B B B B B B B B B B B B B B	Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices. During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices. Click Next to continue.
	< Back Next > Cancel

The following window appears. The touch panel connected to the ST-A20 and the TFTST-A20 are detected, and "COM6" and "COM1 or 2" are chosen. If "COM6" and "COM1 or 2" is not chosen, there may be a problem. Click on the "Next" button.

Elo Touchscreen Setup (Version 4	.8.7b)
	Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
	COM1 COM2 COM3 COM4 COM5 COM6 COM6 Combined the installation.
	< Back Next > Cancel

The following window appears. Confirm that "COM6" and "COM1 or 2" are chosen, then click on the "Next" button.

Elo Touchscreen Setup (Version 4.8.7b)			
	You have selected the COM ports listed below to use with your touchmonitor.		
	COM2 COM6		
WIEND THICKN	Click Next to complete the installation or click Back to change your selections.		
	< Back Next > Cancel		

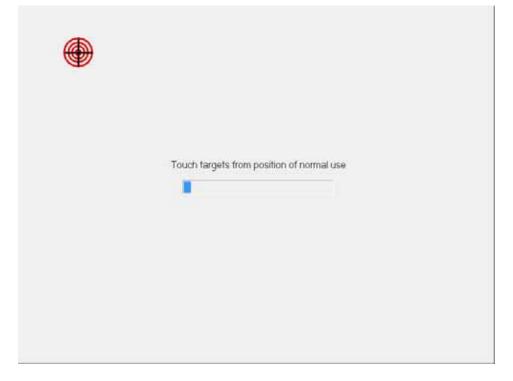
After a while, the installation starts.

Installing Elo Touchscreen drivers and components Copying files

After completion of the installation, the following window appears. Check the "Calibrate Elo Touchscreen monitors" check box, and click on the "Finish" button.

Elo Touchscreen Setup (Version	4.8.7b)	X
BO	Setup Complete Setup has finished installing the Elo touchscreen driver and components. You can choose to calibrate your Elo Touchscreen monitors after setup finishes.	rs
	✓ Calibrate Elo Touchscreen monitors.✓ View Readme.	
BIDME DEC	Click Finish to exit Setup.	
	< Back Finish	

The following calibration screen appears on ST-A20 main screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



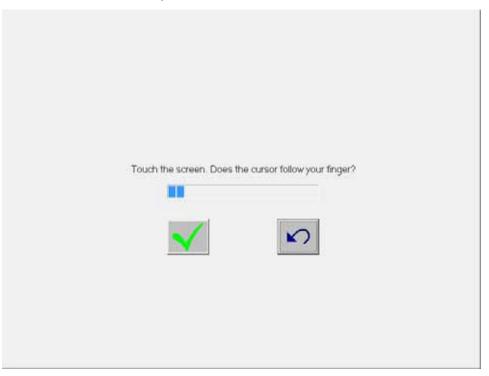
After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



The following calibration screen appears on TFTST-A20 screen. Perform a calibration by touching the mark whenever it appears. (The mark appears three times.)



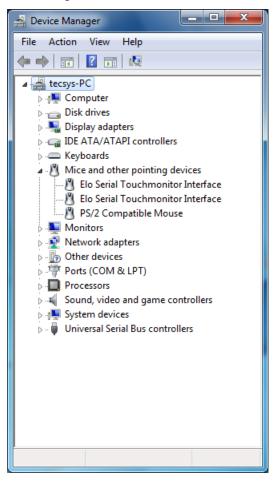
After the mark was touched three times, two buttons appear at the center of the screen. Click on the check mark button to complete the calibration



If the "Files Needed" window appears during installation, click "Browse" button and select "C:\Program Files\EloTouchSystems" folder. Then click on the "OK" button.

Files Need	led	×
	The file 'EloSer.Sys' on EloSerXp is needed.	ОК
		Cancel
	Type the path where the file is located, and then click OK.	
	Copy files from:	
	c:\windows	Browse

Open Device Manager to confirm the touch panel driver has been installed. Make sure that "Elo Serial Touchmonitor Interface" is registered under the "Mice and other pointing devices" icon.



5.7. Installation for i-Button Driver

When the iButton is connected to the ST-A20, "Unknown Device" is shown with an exclamationmark (!) under the "Other devices" icon in the Device Manager window.

Device Manager	
File Action View Help	
♦ ♦ [10]	
E TEC-PC	
B Cost drives	
Display adapters	
E the Floppy disk drives	
General Floppy drive controllers	
G IDE ATA/ATAPI controllers	
Keyboards	
⊕- ^B Mice and other pointing devices	
🕞 🜉 Monitors	
⊕	
B-B Other devices	
- Ja Unknown device	
Ports (COM & LPT)	
Processors	
Sound, video and game controllers	
General Storage controllers	
🕀 🐢 System devices	
Universal Serial Bus controllers	
1	

Note : A confirmation of iButton device

Open Device Manager, right-click on the "Unknown device" icon, then click on "Properties" to open the "Unknown device Properties" window. Click on the "Details" tab, confirm that there is "USB\VID_04FA&xxxxxxx".

Unknown device Properties	? <mark>- ×</mark>
General Driver Details	
Unknown device Property	
Hardware Ids	•
Value	
USB\VID_04FA&PID_2490	
	OK Cancel

We can not redistribute this installation driver. Therefore, if you need the driver, you have to download the driver from following site. <u>http://www.maxim-ic.com/products/ibutton/software/tmex/</u> Note: This URL was written on 2008/7/30.

Run the "install_1_wire_drivers_x86_v40xxx.msi" which you downloaded.

After a while, the "License Agreement" window appears. Confirm the contents. If you agree, check the "I accept the terms in the License Agreement" check box and click on the "Install" button.

😼 1-Wire Drivers Version 4.01 R2 Setup 📃 📼		
	Please read the 1-Wire Drivers Version 4.01 R2 License Agreement	
	Copyright (C) 2008 Maxim Integrated Products, All Rights Reserved.	
	Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute,	
TILITE COMMINSION	✓ I accept the terms in the License Agreement;	
	Print Back Install Cancel	

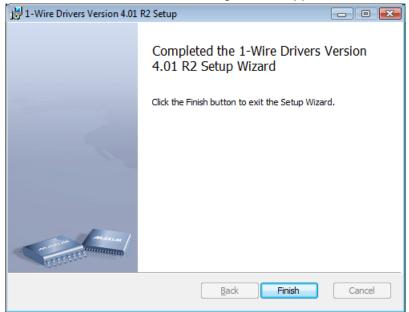
After a while, the following window appears. This is a security notice of Windows system. Click on the "Install" button.

💽 Windows Security
Would you like to install this device software?
Name: Dallas Semiconductor Maxim Publisher: Dallas Semiconductor Maxim
Always trust software from "Dallas Semiconductor Install Don't Install Don't Install
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

After a while, the installation starts.

討1-Wire Drivers Version 4.01 R2 Setup	- • •
Installing 1-Wire Drivers Version 4.01 R2	
Please wait while the Setup Wizard installs 1-Wire Drivers Version	n 4.01R2.
Status:	
<u>B</u> ack <u>N</u> e	xt Cancel

After completion of the installation, the following window appears. Click on the "Finish" button.



Next, we explain the method of updating driver from device manager.

Open Device Manager, right-click on the "USB Host Adapter for 1-Wire Network using WinUSB" icon under the "1-Wire", then click on "Properties" to open the "USB Host Adapter for 1-Wire Network using WinUSB Properties" window.

Device Manager	0.0
File Action View Help	
**\D	
TEC-PC TEC-PC TEC-PC Technology Technolo	

Click on the "Details" tab, and confirm that it is same as following window.

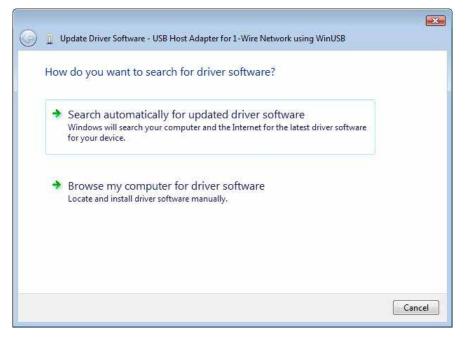
General Driver	er for 1-Wire Network using WinUSB Properties 🔐
USB USB	Host Adapter for 1-Wire Network using WinUSB
Property	
Device descrip	ption
Value	
	lapter for 1-Wire Network using WinUSB

eneral Driver Details		
USB Host Adap	ter for 1-Wire Network using WinUSB	
Driver Provider:	Dallas Semiconductor Maxim	
Driver Date:	5/1/2007	
Driver Version:	6.0.1.0	
Digital Signer:	dallas semiconductor maxim	
Driver Details	To view details about the driver files.	
Update Driver	To update the driver software for this device.	
Roll Back Driver	If the device fails after updating the driver, ro back to the previously installed driver.	
Disable	Disables the selected device.	
Uninstall	To uninstall the driver (Advanced).	

Click on the "Driver" tab, and click on the "Upate Driver..." button.

After a while, the "How do you want to search for driver software" window appears. Click on the "Browse my computer for driver software" button.

Note : If you install it from the media(CD etc.), appoint a media drive path in the search range.



Note: To use the RAID, subsequently install the RAID Utility with reference to Section 6.3 Installation of RAID Utility JMB36X RAID CONFIGURER.

6. Creation of RAID

6.1. Creation of RAID from RAID BIOS Menu

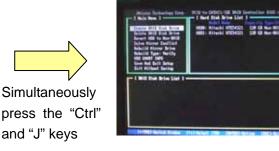
6.1.1. Getting Started

Make sure the power is not turned on. Connect two SATA HDDs on which no RAID has been created. And create a RAID from the RAID BIOS menu.

6.1.2. Startup of RAID BIOS Menu

After checking the HDDs are connected to the RAID controller, turn the power on and wait for the RAID BIOS screen to appear. On the RAID BIOS screen, simultaneously press the "Ctrl" and "J" keys to start the RAID BIOS menu.





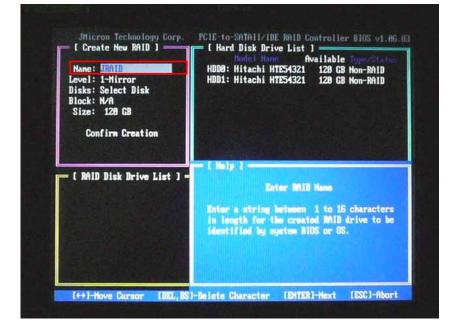
6.1.3. Creation of RAID

To create a RAID, select "Create RAID Disk Drive" on the main RAID BIOS menu and set up the two items: Name and Size.



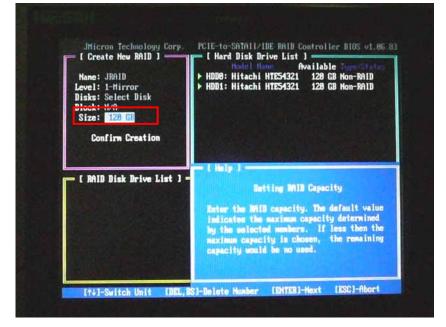
6.1.4. Setup of RAID Name

With the cursor on "Name", where you can specify a RAID name, enter the RAID name from the keyboard, and press the "ENTER" key. Then, move the cursor to "Size".



6.1.5. Setup of RAID Size

With the cursor on "Size", where you can specify a RAID capacity, enter the RAID capacity from the keyboard, and press the "ENTER" key. The Confirm Creation screen appears.



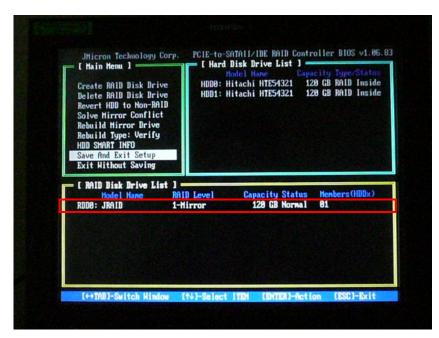
6.1.6. Confirm Creation Pop-up Screen

Upon completion of the setting of Name and Size, the RAID Confirm Creation pop-up screen appears. If both the name and size entered are correct, press the "Y" key to complete the creation of the RAID. If either/both of them need to be changed, press the "N" key, and try to create a RAID again.



6.1.7. Completion of Creation of RAID

When the creation of the RAID is completed, the RAID information you set is displayed in the "RAID Disk Drive List" on the RAID BIOS menu. Note the information is only shown and has not been saved yet. To save it and exit the setup, complete the setup by selecting "Save And Exit Setup" on the RAID BIOS menu as explained in Section 6.1.4 Exit from BIOS Menu.



6.1.8. Exit from RAID BIOS Menu

To save the items you set up in the RAID BIOS menu and exit the menu, always select "Save And Exit Setup" and press the "Y" key. When the RAID BIOS menu exits, ST-A20 is automatically restarted.

Note: When the RAID BIOS menu is exited by any other operation, the setup information is not saved.

Create RAID Disk Drive Delete RAID Disk Drive Revert HDD to Non-RAID Solve Mirror Conflict Rebuild Mirror Drive Rebuild Type: Verify HDD SMART INFO Save And Exit Setup	HDD0: Hitachi HTE54321 120 GB RAID Insid HDD1: Hitachi HTE54321 120 GB RAID Insid
= [RAID Disk Drive L Model Name	we to Bisk & Exit (E/N)Y Y us Henbers(HODx) -Mirror 128 GB Normal 81

6.2. Installation of Each Operating System in RAID Environment

6.2.1. Windows 2000/Windows XP

6.2.1.1. Getting Started

The JMicron RAID driver must be installed from a floppy disk (FD) during an installation of the operating system. For this purpose, connect the floppy disk drive (FDD) and copy the JMicron RAID driver on the FDD before installing the operating system.

[How to Create a RAID Driver Floppy Disk]

Copy all files in the "ST-A20\RAID\Driver\Floppy32" folder contained in the driver kit CD to the FD.

As soon as the boot up from CD-ROM starts, a message will be displayed at the top left area of the screen as shown below. Do not press the "Ctrl + J" key. (Note the message is shown only for about 8seconds. If necessary, press the "Ctrl + J" key to enter RAID Setup.)

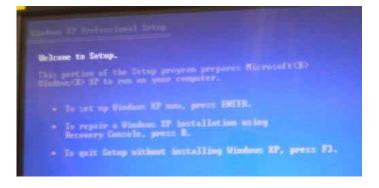


6.2.1.2. Installation of JMicron RAID Driver

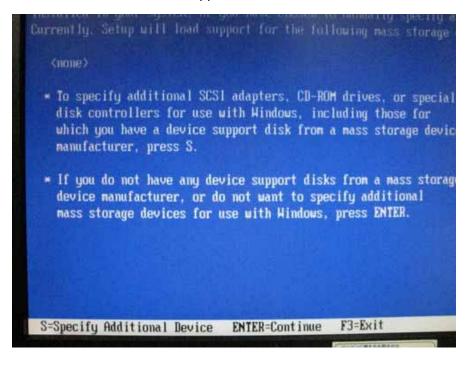
A short time after the installation of the operating system starts, a message "Press F6 if you need to install a third party SCSI or RAID driver..." appears at the bottom of the operating system installation screen as shown below. On this screen, press the "F6" key to give the operation system installer an instruction to start installing the driver.



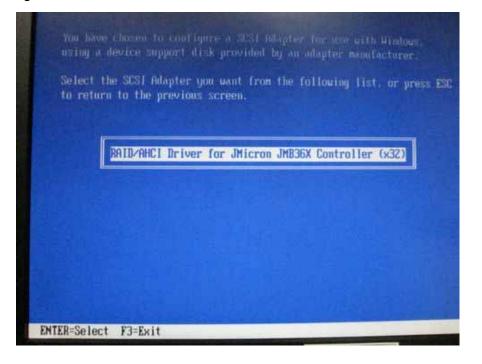
Note: The driver installation screen will not appear as soon as the "F6" key is pressed. It appears after the installation of the operating system proceeds to some extent. If the screen shown below appears, it means the instruction of the driver installation has failed. In this case, reboot ST-A20 and start the installation of Windows from the beginning.



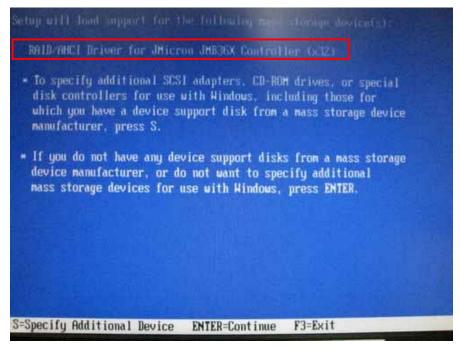
A short time after the instruction to install the driver is given to Windows XP, the driver installation screen shown below appears. On this screen, press the "S" key, and the screen to select a driver to be installed appears.



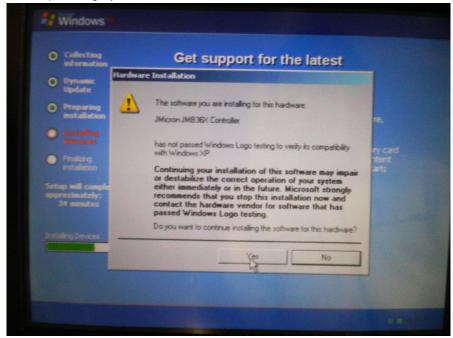
On this driver selection screen, you will select a driver to be installed. Among the drivers read from the FD and shown on the screen, select "RAID/AHCI Driver for Jmicron JMB36X Controller(x32)" and press the "ENTER" key. And, the driver installation screen is displayed again.



After selecting the driver to be installed and the driver installation screen appears again, the driver selected is shown on the screen as indicated with the red box in the figure below. If the diver shown is correct, press the "ENTER" key to continue the installation of Windows. If the driver shown is not correct, press the "S" key again and select a correct driver.



After installing the RAID driver, follow the instructions of the Windows installer to complete the installation. When the hardware installation screen shown below appears during the installation of the operating system, click on the "Yes" button.



Upon completion of the installation of Windows, creation of the RAID is also completed.

6.2.2. Windows Embedded for Point Of Service (WEPOS)

6.2.2.1. Getting Started

The JMicron RAID driver must be installed from a floppy disk (FD) during an installation of the operating system. For this purpose, connect the floppy disk drive (FDD) and insert a RAID Driver Floppy Disk into FDD before installing the operating system.

[How to Create a RAID Driver Floppy Disk]

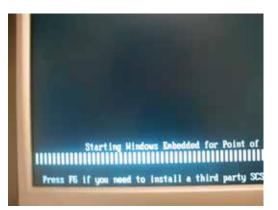
Copy all files in the "ST-A20\RAID\Driver\Floppy32" folder contained in the driver kit CD to the FD.

As soon as the boot up from CD-ROM starts, a message will be displayed at the top left area of the screen as shown below. Do not press the "Ctrl + J" key. (Note the message is shown only for about 8seconds. If necessary, press the "Ctrl + J" key to enter RAID Setup.)



6.2.2.2. Installation of JMicron RAID Driver

The next message is displayed at the bottom left area of the screen as shown below. Do not press the "F6" key. (Note the message is shown only for about 5 seconds)

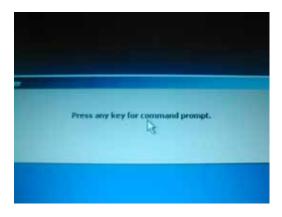


While a wait, the "Windows Flag" screen appears.



Important!

When a message is displayed at the middle area of the screen as shown below, **press any key to run command prompt. (Note the message is shown only for about 2 seconds.)** If we failed to press any key when the message appears, the command prompt window will not be displayed instead the "Welcome to Windows Embedded for Point of Service Setup" window will appear, press the "Esc" key to cancel. We need to do the installation from the start.



Afterward this command prompt will be shown.

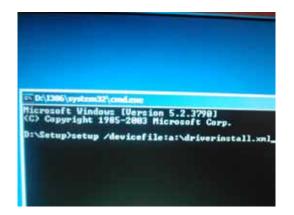
ticresoft (C) Copyr	Vindous [U ight 1985-2	ercion 5.2.3796 003 Microsoft ()] Jorp.
DI\Setup)			

On command prompt, type "setup /devicefile:a:\driverinstall.xml" and press the "Enter".

d:\setup>setup /devicefile:a:\driverinstall.xml[Enter]

(Note there is only one space between characters "setup" and "/".)

After we press "ENTER" the command prompt will not close, please wait for the installation to begin. **Do not type "EXIT" and press enter on the command prompt.**



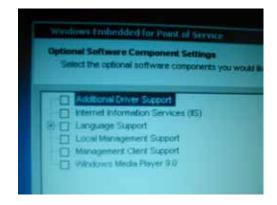
The "Welcome to Windows Embedded for Point of Service Setup" window will appear. Click on the "Next" Button to start the installation.

Welcome to Windows Embedded for Point of Service Setup.
The estimated herein you had up Weathing Evaluating the Point of Elastical The continues, which Steel De

Follow the instructions to continue installation.

When the "Optional Software Component Settings" window appears, please select the required check box. Click "Next" when finish selecting the option.

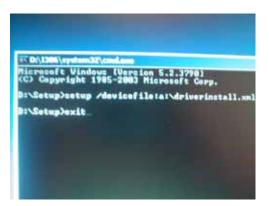
Additional Driver Support Internet Information Services (IIS) Language Support Local Management Support Management Client Support Window Media Player 9.0



Follow the instructions to continue installation.

After the installation complete, the "Command Prompt" window will appear again. Type "exit" and press "Enter" key to reboot your computer.

d:\setup>exit[Enter]



If the operating system successfully installed, the "User name and Password" window will appear.

Upon completion of the installation of Windows Vista, creation of the RAID is also completed.

6.2.3. Windows Embedded POSReady 2009

6.2.3.1 Getting Started

The JMicron RAID driver must be installed from a floppy disk (FD) during an installation of the operating system. For this purpose, connect the floppy disk drive (FDD) and copy the JMicron RAID driver on the FDD before installing the operating system.

[How to Create a RAID Driver Floppy Disk] Copy all files in the "ST-A20\RAID\Floppy32" folder contained in the Driver kit CD to the FD.

As soon as the boot up from CD-ROM starts, a message will be displayed at the top left area of the screen as shown below. Do not press the "Ctrl + J" key. (Note the message is shown only for about 8seconds. If necessary, press the "Ctrl + J" key to enter RAID Setup.)



6.2.3.2. Installation of JMicron RAID Driver

The next message is displayed at the bottom left area of the screen as shown below. Do not press the "F6" key. (Note the message is shown only for about 5 seconds)

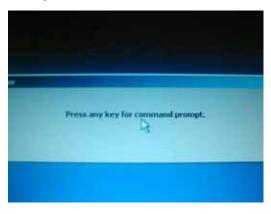


While a wait, the "Windows Flag" screen appears.



The next message is displayed at the bottom left area of the screen as shown below. Do not press any key.

Note: the message is shown only for about 2 seconds



The windows installer displayed.



Follow the instructions of the Windows installer, then "Storage Drivers" window is displayed Please select "Install Third-Party Storage Drivers" and click on the "Next" button, though default setting is "No Additional Storage Drivers are Required".

Windows Embeddes! POSReady 2009	
Storage Drivers	Windows Embeddee POSReady 2009
No@dditional Storage Drivers are Respaced Setup will use storage drivers from the POSRead	Install storage drivers obtained trans the hadwate may be to they are required
Install Third Party Storage Drivers Setup will install additional drivers that you provide manufacture.	from your hardware

The connected FDD is read automatically, and the RAID driver is installed.

The message "Installing Mass Storage Device Drivers" is displayed.

The message "Please wait while setup loads drive and partition information" is displayed. If RAID driver is installed correctly, HDD is detected.

Please continue to install by following the instructions of the Windows installer.

Windows Embedded POSReady 2009	2
Storage Drivers	Windows Embedded
No Additional Storage Drivers are Required Setup will use storage drivers from the POSReady installation media	Instal storage drivers obtained from the handware manufacture if they are required.
Installing Mass-Storage Device Drivers	
Setup will install additional drivers that you provide from your hardwa manufacturer.	8re
< gack Ment >	Çancel

"Installation Type" window is displayed.

Select "Custom" and select necessary option on "Optional Component". (Refer to Notice 6.1.3)

🐞 Windows Embedded POSReady 2009	×
Installation Type	Windows Embedded
 Lypical (1126 MB) This is the recommended installation type. Includes the .NET Framework 2.0, POS for .NET 1.12, and enables system-managed visual memoy. Minimum (520 MB) Includes the minimum required components and disables visual me to connerve disk space. 	Select from the available ratabilism type: Optical components can be modified after Setup in complete by using Add or Remove Programs in the Control Panel
Cystom Enables you to select optional components and to manually configur virtual memory. <pre></pre>	e Carcel

Follow the instructions of the Windows installer to complete the installation.

6.2.4. Windows Vista / 7

6.2.4.1. Getting Started

During an installation of the operating system, the JMicron RAID driver must be installed from a FD or an USB flash memory. For this purpose, create the JMicron RAID driver media in the FD or the USB flash memory before installing the operating system.

[How to Create the JMicron RAID Driver Media]

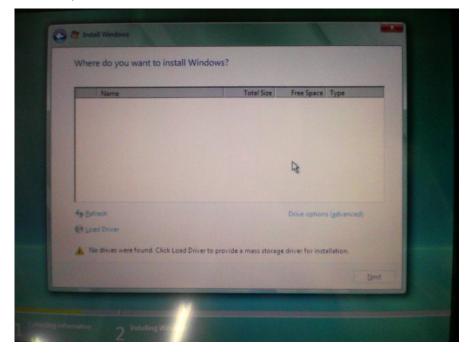
Copy all files in the "ST-A20\RAID\Driver\Floppy32" folder contained in the driver kit CD to the FD or the USB flash memory.

As soon as the boot up from CD-ROM starts, a message will be displayed at the top left area of the screen as shown below. Do not press the "Ctrl + J" key. (Note the message is shown only for about 8seconds. If necessary, press the "Ctrl + J" key to enter RAID Setup.)



6.2.4.2. Installation of JMicron RAID Driver

A short time after the installation of the operating system starts, the screen to select a drive, where the operating system is to be installed (OS installation drive selection screen), appears as shown below. (As a default, no drives are shown because the RAID driver has not been installed.) On this screen, click on "Load Driver".



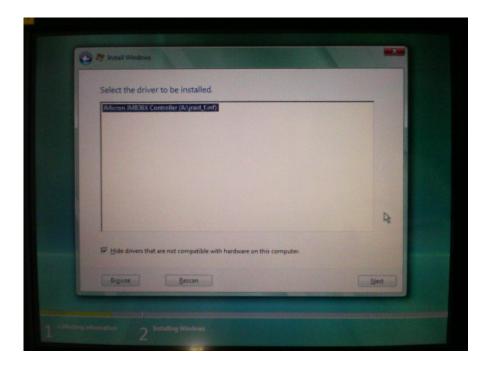
The driver file selection screen as shown below appears. Click on the "Browse" button.

-	t the driver to be installed.	-
	Load Driver	
	To install the device driver needed to access your hard drive, insert the installation media containing the driver files, and then click OK. Note: The installation media can be a floppy disk, CD, DVD, or USB flash drive.	
R R	Browse OK Canc	-
8-5	Bescan	Next

The driver file selection screen as shown below appears. On this screen, select the JMicron RAID driver media which was previously created in the FD or the USB flash memory, and press the "OK" button.

Select the driver to be installed.
Image: Antiperiod and a state of the sta
E Hide drivers that :
Brgwse Rescan Mext

The drivers read from the FD or the USB flash memory are shown on the screen. Select "Jmicron JMB36X Controller (C:\jraid_to.inf)", then click on the "Next" button. The OS installation drive selection screen appears again.



When the OS installation drive selection screen appears again, it shows the HDD connected with the RAID. Select the drive where the operating system is to be installed and click on the "Next" button. The installation of the operating system resumes.

Name	Total Size Free Sp	ace Type
Disk 0 Unallocated Space	111.8 GB 111.8	Contraction of the local division of the loc
** Serech (* Loss Drive	Drive op	bons (advanced)

Upon completion of the installation of Windows Vista, creation of the RAID is also completed.

6.3. Installation of RAID Utility JMB36X RAID CONFIGURER

The JMB36X RAID CONFIGURER (RAID Application) is an operating system resident application which monitors and maintains the RAID. It monitors a status, for example, disconnection and connection of an HDD from/with the RAID controller. When the HDD is connected, it performs rebuilding or resynchronization so that the connected HDD can be used in the RAID environment. It also provides the same features as those provided by the RAID BIOS menu including status monitor of the HDD connected with the RAID controller, RAID configuration and rebuilding.

Note: The RAID Application cannot be used unless it is installed as described in the next section.

💮 JMB36X RA	ID CONFI	GURER		? .	- x
			G	M	
RAID LIST		ŝT			
Raid Name	TEST	Normal 9.3438	IGB		
TEST	Name		Capacity	Device Type	Chanr
	SATA	TOSHIBA MK6052GSX	55.8902GB	3G NCQ HDD	1
	SATA	TOSHIBA MK6052GSX	55.8902GB	3G NCQ HDD	0
Raid Information Disk Array ID: 0 Disk Array Name: TEST Disk Array Type: Raid 1 (Mirr Disk Count in Array: 2 Disk Members: - SATA TOSHIBA MK60 Disk Array Size: 9.3438GB	5				
			JMICRON	TECHNOLOGY	

[RAID LIST]

Lists the RAIDs created.

[Raid Information]

Displays the information about the RAID selected from the RAID LIST.

[DISK LIST]

Displays the information about the HDD connected with the RAID controller and the information about the HDD related to the RAID selected from the RAID LIST.

• The figure below shows the JMB36X RAID CONFIGURER icon in the task tray (as indicated with the red box). When the icon is double clicked, the RAID Application is displayed. (It is not displayed if the RAID Application already exists in the task bar.)



6.3.1. Installation

This section describes the procedure to install the JMB36X RAID CONFIGURER.

Run setup.exe in the "ST-A20\RAID\Driver" folder in the ST-A20Windows driver kit. For the subsequent installation procedures, follow the instructions of the installer. When the screen asking you to reboot your computer appears as shown below, check the "Yes, I want to reboot my computer now." radio button, then click on the "OK" button to reboot your computer.

	Maintenance Camplete
	EndedDield Wheel has Bidded performing mandersons represente in Alicens AREDOCENES The Linear to match managements The Two Linear to compare the No. I reformed as compare the Remove any data transities dones, and then citils Faceh to complete webs:
letoFine()	Carried Connect

After the computer is rebooted and the desktop screen appears, make sure the JMB36X RAID CONFIGURER icon is shown in the task tray as indicated in the red box in the figure below. If it is in the task tray, the installation is completed.



When the operating system is Windows Vista and 7, the JMB36X RAID CONFIGURER does not automatically start up when the operating system starts up. Please perform the following additional settings.

6.3.2. Setup for Windows Vista / 7

Open the Control Panel, then Administrative Tools. Click on Task Scheduler to start.

vorite LinksNameDate modifiedTypeSizeDocumentsComputer Management1/20/2008 6:43 PMShortcut2 KBPicturesData Sources (ODBC)11/2/2006 4:53 AMShortcut2 KBMusicEvent Viewer11/2/2006 4:54 AMShortcut2 KBRecently ChangedScSL Initiator11/2/2006 4:54 AMShortcut2 KBSearchesPorint Management11/2/2006 4:53 AMShortcut2 KBPublicPrint Management11/2/2006 4:53 AMShortcut2 KBServices11/2/2006 4:55 AMShortcut2 KBSystem Configuration11/2/2006 4:53 AMShortcut2 KBSystem Configuration11/2/2006 4:53 AMShortcut2 KBSystem Configuration11/2/2006 4:45 AMShortcut2 KBSystem Configuration11/2/2006 4:53 AMShortcut2 KBSystem Configuration11/2/2006 4:53 AMShortcut2 KBSystem Configuration11/2/2006 4:53 AMShortcut2 KBSystem Configuration11/2/2006 4:54 AMShortcut2 KBSystem Configuration1/20/2008 6:44 PMShortcut2 KBSystem Configuration1/20/2008 6:44 PMShortcut2 KB<	Organize 👻 🏢 View	/s 🔻				
DocumentsImage: Computer Management1/20/2008 6:43 PMShortcut2 KBPicturesData Sources (ODBC)11/2/2006 4:53 AMShortcut2 KBMusicImage: Fice Processing Proce	I - ANDARDI, U.A.S.Y.C. MITTER OLD AD AN		Date modified	Туре	Size	
	Documents Pictures Music Recently Changed Searches	Data Sources (ODBC) Event Viewer SicSI Initiator Local Security Policy Memory Diagnostics T Print Management Reliability and Perform Services System Configuration Task Scheduler	11/2/2006 4:53 AM 11/2/2006 4:54 AM 11/2/2006 4:54 AM 1/2/2006 4:54 AM 11/2/2006 4:53 AM 11/2/2008 6:43 PM 1/20/2008 6:43 PM 1/2/2006 4:53 AM 11/2/2006 4:54 AM	Shortcut Shortcut Shortcut Shortcut Shortcut Shortcut Shortcut Shortcut Shortcut Shortcut	2 KB 2 KB 2 KB 2 KB 2 KB 2 KB 2 KB 2 KB	
lders	lders 🔺					

After the Task Scheduler starts up, click on "Create Task...".

Task Scheduler (Local)	Task Scheduler Summary (Last refresh			Actions
> 🔀 Task Scheduler Library	You can use Task Schedule common tasks that your co automatically at the times click a command in the Ac Tasks are stored in folders i Library. To view or perform	omputer will carry out you specify. To begin, tion menu. in the Task Scheduler		Task Scheduler (Local) Connect to Another C Create Basic Task Create Task Import Task
	Task Status		E	Display All Running Ta
	Status of tasks that have started in	t Last hour	וו	AT Service Account Co
	Status of tasks that have started in	Last nour		View
	Summary: 2 total - 0 running, 2 su	cceeded, 0 stopped, 0 failed		Refresh
				<table-cell> Help</table-cell>
	Task Name	Run Result Run Sta		
	 ⊞ CrawlStartPages (last run succ ⊞ SR (last run succeeded at 1/6/ 		-	
	< [•		

Click on the "General" tab and make settings as shown in the figure below.

Name: 36X Raid Configurer

Security options: Click on the "Run only when user is logged on" radio button. Check the "Run with highest privileges" box.

General Trigg	ers Actions	Conditions	Settings			
Na <u>m</u> e:	36X Raid C	Configurer)			
Author:	tecsys-PC	\tecsys				
Description:						
Security option	ons					
When runnir	ng the task, use	the followin	ig user account:			
	CENTE				Change Us	er or Group
tecsys-PC\te	csys				Change <u>U</u> s	ci oi oi oi oup
		gged on	1		Change <u>o</u> s	
Run only	when user is lo her user is logo				Change <u>U</u> s	
 <u>Run only</u> Run <u>w</u>het 	when user is lo her user is logg	jed on or not		o local comp	<u></u>	
 <u>Run only</u> Run whet Do not 	when user is lo her user is logg t store <u>p</u> asswo	jed on or not rd. The task	t will only have access t	o local comp	<u></u>	
 <u>Run only</u> Run whet Do not 	when user is lo her user is logg	jed on or not rd. The task		o local comp	<u></u>	
 <u>Run only</u> Run whet Do not 	when user is lo her user is logg ot store <u>p</u> asswo highest privileg	rd. The task			uter resources.	

Click on the "Triggers" tab and click on the "New..." button.

hen you creat	a task, you can specify the conditions that will	trigger the task.
[rigger	Details	Status
and the second se	<u>E</u> dit <u>D</u> elete	

The "New Trigger" screen appears. Select "At log on" from the "Begin the task:" pull-down menu, then click on the "OK" button.

legin the task:	At log on		
Settings			
Any user			
Spe <u>c</u> ific use	r or group: tecsys	s-PC\tecsys	Change <u>U</u> ser or Group
Advanced settin	gs		
Advanced setting	5	15 minutes 👻	
	-)r:	15 minutes 💌 1 hour 💌	for a duration of: 1 day 👻
Delay task for the second s	or: every:		-
 Delay task for Repeat task Stop all 	or: every:	1 hour 💌	-
 Delay task for Repeat task Stop all 	- or: every: running tasks at end	1 hour v of repetition duration 3 days	
 Delay task for Repeat task Stop all Stop task if in 	every: running tasks at end t runs <u>l</u> onger than:	1 hour v of repetition duration 3 days 9:59:23 AM	
 Repeat task Stop all Stop task if i Activate: 	every: running tasks at end t runs <u>l</u> onger than: 2/ 9/2009	1 hour v of repetition duration 3 days 9:59:23 AM	Synchronize across time zones

Confirm the new trigger has been added.

General	Triggers	Actions	Conditions	Settings		
When y	ou create	a task, you	u can specify	the conditions that will trigger t	he task.	
Trigge	er	Det	ails		Status	9
At log	on	At I	og on of any	user	Enabled]
		Edit	Delete			
New	V	Earc				
Nev						

Click on the "Actions" tab and click on the "New ... " button.

eate Task	\frown				
General Trigge	Actions Conditions	s Settings			
When you crea	te a task, you must spec	ify the action that wil	l occur when your ta	sk starts.	
Action	Details				
<u>N</u> ew	<u>E</u> dit <u>D</u> elet	e			
				ОК	Cancel

After the "New Action" screen appears, make settings as shown in the figure below and click on the "OK" button.

Action

: Start a program

Program/script

: C:\Windows\System32\xRaidSetup.exe

Add arguments (optional) : boot

ew Action	
You must specify what action this task will perform.	
Act <u>i</u> on: Start a program	
Settings	
<u>P</u> rogram/script:	
C:\Windows\System32\xRaidSetup.exe	Browse
Add arguments (optional): [boot]	
Start in (optional):	
	OK Cancel

Confirm the new action has been added.

Action	Details		
Start a program	C:\Windows\System32\xRaidSetup.exe boot		
			-
		9	

Click on the "Settings" tab, uncheck the "Stop the task if it runs longer than:" box, and click on the "OK" button.

reate Task			
General Triggers Actions Conditions Setting	gs		
Specify additional settings that affect the behavi	or of the task.		
Allow task to be run on demand			
Run task as soon as possible after a scheduled	start is missed		
If the task fails, restart every:	1 minute	w	
Attempt to restart up to:	3 times		
Stop the task if it runs longer than:	3 days	*	
If the running task does not end when reques	ted, <u>f</u> orce it to stop		
If the task is not scheduled to run again, delet	e it after:	30 days	
If the task is already ru <u>n</u> ning, then the following	rule applies:		
Do not start a new instance 🔹			
		ок	Cancel

Task Scheduler		
File Action View Help		
🗢 🏟 🖄 📰 🚺		
Task Scheduler (Local)	Name Status Triggers Next Run Time	Actions
Task Scheduler Library	B36X Raid Configurer Ready At log on of any user	Task Scheduler Library
	Sources and a second seco	💿 Create Basic Task
		The Create Task
		Import Task
		Display All Running Ta
	4	Mew Folder
	General Triggers Actions Conditions Settings History	View •
	Name: 36X Raid Configurer	Refresh
	Author: tecsys-PC\tecsys	🛛 Help
	Author:	Selected Item
	Description:	Run
		End
		Disable
	Security options	Export
	When running the task, use the following user account:	
	tecsys-PC\tecsys	Properties
	lecsys-r-Cliecsys	🔀 Delete
	Run only when user is logged on	🛛 👔 Help
	→	

Confirm the new task has been added. Close the screen and reboot the operating system.

6.3.3. Setup for WEPOS

Run the "Del_HKLM.reg" file in the "ST-A20Win\RAID\ Driver\WEPOS_Reg" folder contained in the driver kit CD to delete the following registry information from "HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Run".

- Name: "JMB36X IDE Setup" Data: "C:\\Windows\\RaidTool\\xInsIDE.exe"
- Name: "36X Raid Configurer" Data: "C:\\Windows\\system32\\xRaidSetup.exe boot"

				2	9
	sure you want b 20¥RAID¥Driver			to the registry?	
ensi e	Ves		1		2
	And the second second				
egistry Editor	-				
egistry Editor					
	ion in C:¥ST-B20 ully entered into		WEPOS_Reg	Oel_HKLM.reg h	vas b
	mill enrered arro	nie regiony.			

Reboot your computer.

After the OS has started up, run the "JMB36X Raid Configurer" form [Start] -> [All Programs]->[JMicron Technology Corp].

Administrator		
Internet Internet Explorer	My Computer	
Notepad	Control Panel	
Shortcut to RaidApiTest.exe	E Run	
Accessor Accessor	ies 🕴 Technology Corp 🕴 🛃 3MB36X Raid Confi	
and the second se	Sound Manager +	446
🔁 Sartup		
	Explorer Media Player	
	Log Off O Shut Down	Evaluation cop

Run the "Add_HKCU.reg" file in the "ST-A20Win\RAID\ Driver\WEPOS_Reg" folder contained in the driver kit CD to add the following registry information to "HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run".

- Name: "JMB36X IDE Setup" Data: "C:\\Windows\\RaidTool\\xInsIDE.exe"
- Name: "36X Raid Configurer" Data: "C:\\Windows\\system32\\xRaidSetup.exe boot"

2)	Are you sure you C:¥ST-820¥RAID¥				he registry?
4		Yes	No		
	18				
gistry	Editor			10	
				S_Reg¥Add_	HKCU.reg has
į)	Information in C:¥ successfully enter	ed into the regis	stry,		
į)		ed into the regis	stry,		

Reboot your computer.

After the OS has started up, check the task tray to confirm whether the icon exists.



6.4. Creation of RAID from JMB36X RAID CONFIGURER

This section describes the procedures to create the RAID from the HDD which has been installed OS without RAID.

6.4.1. Getting Started

Connect the source disk to channel 0, connect the destination disk to channel 1.

6.4.2. Startup of RAID Application

Run the JMB36X RAID CONFIGURER from the task tray.



6.4.3. Creation of RAID

Confirm the Create RAID From Existing Disk icon on the RAID Application screen indicated with the red box in the figure becomes effective.

Click on this icon to show the Create RAID From Existing Disk dialog screen.

() JMB36X R	AID CONFIGURER				? - X
		Ø	G		
RAID LIST					
Raid Name	All disks:				
	Name	Capacity	Device Type		
	Hitachi HTE5432	19.0833GB	3G NCO HDD	0	Master
	Hitachi HTE5432	19.0833GB	3G NCO HDD	1	Master
Raid Information	P				
			JMICR	ION TECH	NOLOGY CORP.
6	of the local division of the local divisiono				

Click on the "Next" button on the screen, and the screen to create a RAID appears.



6.4.4. Setup of RAID Name

Input Raid Name at your disposal in the text box.

192		cify the name, the ock size of the raid	
Contraction of the local division of the loc	and the bio	ock size of the raid	1
() ЈМВЗ6Х	Raid Name		
TANKING STORE	Raid Type	Raid 0 (Stripe)	•
The second	Block Size	64 KB	-

6.4.5. Setup of RAID Type

Select Raid Type as "Raid 1 (Mirror)". Click on the "Next" button on the screen, and the screen to select a source disk appears.

1 mm 1		
	cify the name, the	
and the blo	ck size of the raid	
Raid Name		-
Runa Runo	produc	
Raid Type	Raid 1 (Mirror)	
Block Size	64 KB	
	and the blo Raid Name Raid Type	and the block size of the raid Raid Name JRAID Raid Type Raid 1 (Mirror)

6.4.6. Select a source disk

Check the radio button, channel 0. Click on the "Next" button on the screen, and the screen to select a destination disk appears.



6.4.7. Select a destination disk

Check the radio button, channel 1. Click on the "Next" button on the screen, and the screen to New Raid Creation appears.

	Select the destination disks which will be added to the raid. Available disks				
инвабх	Hitachi HTE54321	Capacity 19.0833GB	Unannel 1	Î	
A MARKE	< 0				

6.4.8. Confirm Creation Screen

Click on the "Finish" button on the screen and start to create RAID.

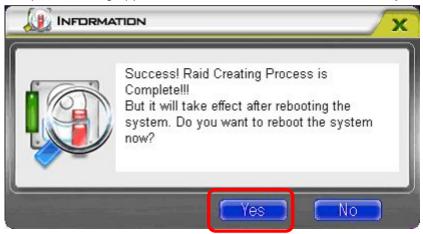


If creating RAID begins, the progress bar appears like the following screen.

Raid LIST Raid Name	All disks:			
	Name Hitachi HTE5432	Capacity 19.0833GB		Device Priorit Master
	Hitachi HTE5432		1	Master
Raid Information	_			

6.4.9. Completion of Creation of RAID

When the progress percentage reaches 100%, the rebuilding process is completed and the process completion dialog appears. Click on the "Yes" button to reboot your Computer.



When the RAID configuration works properly, the Raid Name you created appears in the RAID LIST.

() JMB36X RA	ID CONFI	GURER				? - x
<u>F</u>			Ø	19	R	1
	DISK LI	ат				
Kalo Name	JRAID	Normal	9.3438			
JRAID	Name		Capacity	Device Type	Channel	Device Priority
	SATA	TOSHIBA	55.8902GB	1.5G NCQ H	0	Master
	SATA	TOSHIBA	55.8902GB	3G NCQ HDD	1	Master
Raid Information Disk Array ID: 0 Disk Array Name: JRAID Disk Array Type: Raid 1 (Mirr Disk Count in Array: 2 Disk Members: - SATA TOSHIBA MK8C - SATA TOSHIBA MK6C Disk Array Size: 9.3438GB						
				JMic	RON TECH	NOLOGY CORP

6.5. Procedure from Occurrence of HDD Error to Rebuild of RAID

This section describes the procedures to rebuild the RAID when an HDD error has occurred.

When an HDD error occurs, replace a defective HDD with a new one and rebuild the RAID in accordance with Sections 6.4.1 to 6.4.4.

6.5.1. Two Methods to Rebuild RAID

There are two types of methods to rebuild the RAID: "with verify" and "without verify". Note: A recommended method is the "with verify" method by the "Verify" function of the RAID BIOS.

Rebuild Method	Туре	Time to rebuild (120 GB)
"Verify" of RAID BIOS	With verify	Approx. 300 min.
"No Verify" of RAID BIOS, or RAID utility on operating system	without verify	Approx. 50 min.

6.5.2. HDD Error Handling

When an HDD error occurs, replace the HDD and rebuild the RAID following the procedures described below. If a defective HDD is continuously used, an unexpected system error may occur. To avoid such a case, replace the HDD and rebuild the RAID as soon as possible following the next chapter.

When an HDD error occurs, a pop-up message requesting resynchronization appears. Click on the "No" button.



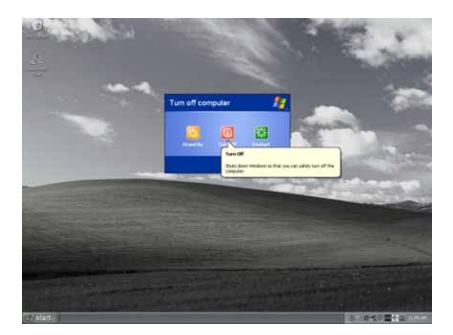
- Note 1: When the "No" button is clicked on, the POS system continues operating but only one HDD is running without the RAID configuration. If an HDD error occurs under this condition, data cannot be recovered.
- Note 2: When the HDD is continued to be used without being replaced after the "No" button is clicked on, the above pop-up screen appears whenever the operating system is rebooted until the defective HDD is replaced with a new one.

6.5.3. Replacement of HDD

When replacing the defective HDD with a new one, confirm the defective HDD on the RAID BIOS screen, then replace the HDD. After the replacement, follow the next chapter to rebuild the RAID.

Note: Be careful not to replace a non-defective HDD.

Shut down the operating system.



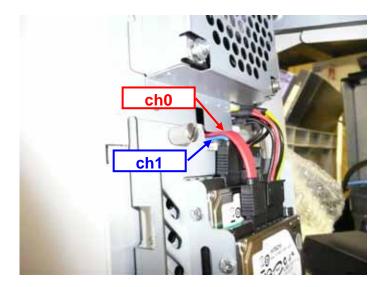
On the BIOS screen as shown below, confirm the defective HDD. "DOWN" indicates the HDD is defective.

HDD0 : ch0 (Red cable) HDD1 : ch1 (Blue cable)

Note: For details of the cable location, please refer to the ST-A20 Product Specification.

Hicron Technology Corp. Xopyright (C) 2005 JMicr	PCIE-to-SATAII/1 ron Technology.	DE RAID C	mtroller BlOS v1.06.
HORI: Hitachi HTESA	2121.58388	0009	129 CB PAID Inside
RUDE: JRAID	1-Mirror		128 GS Rebuild
	ID Setup. Press (E		

In the above example, "DOWN" is indicated for HDD0, which means the HDD, which is connected with ch0, is defective. After confirming the defective HDD, turn the HDD power off and replace the HDD, which is connected with ch0 (Red cable), with a new HDD.



6.5.4. Rebuild of RAID

After replacing the HDD, rebuild the RAID.

[Rebuild from RAID BIOS]

Description	RAID BIOS Menu Screen
After a short time since the power is turned on, the display stops at the RAID BIOS screen. On this screen, press the [Ctrl]+[J] keys to start the RAID BIOS menu. Note the display always stops at this screen whenever the POS system is started up until the RAID is rebuilt.	JRicrum Technology Corp. PCIE-to-SATAIL/10E ANID Controller BIOS v1.85.83 Copyright (C) 2005 JRicrum Technology. Matt: Witzehl HTESt2212190000 2009 22 CM ANID inside Matt: Witzehl HTESt2212190000 2009 22 CM ANID inside Matt: JANID 1-Hirror 120 CM Rebuild Press (Ctrl+J) key to MID Setup. Press (Enter) key to quit.
On the "[Main Menu]", select "Rebuild Type: Verify". Press the [Enter] key and select whether or not "Verify" is to be executed when the RAID is rebuilt. "Rebuild Type: Verify" : "Verify" "Rebuild Type: No Verify" : "No Verify" Select "Rebuild Mirror Drive" from "[Main Menu]", and press the [Enter] key.	Misrow Technology Gry. FCID to -INTRIFICATION Controller FID: -1.06.00 I Main Hows 1 I Hard Bisk Brive List 1 Create Brill Bisk Brive Brive Brive Brive Control How Hills C
Select "Rebuild Mirror Drive" from "[RAID Disk Drive List]" and press the [Enter] key. Then rebuilding starts.	Image: Second and Outs. File-to-SMARLINE with Controller SUB vt. M. H. I Main News J I Main News J Create SNIB Back Brive Revert NOB to New-PHIB Bolter Hilton Exhibit Hirtson Buller Hilton MIDE: Hilton's MIDE Back Brive Back Hilton's Saving I Multer Hilton's MIDE Back Brive MiDE: Hilton's Saving I MIDE State Tool Save And Zait Setup MIDE Lovel Capacity Status Machiner 4000-1 I MIDE Jaik Brive List J MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Externer MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Externer Ext Hilton's MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Externer Ext Distabilit Blance MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Externer Ext Distabilit Blance MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Externer Ext Distabilit Blance MIDE Lovel Capacity Status Machiner 4000-1 MIDE Jaik Brive List J Ext Distabilit Blance MIDE Lovel Capacity Status Machiner 4000-1

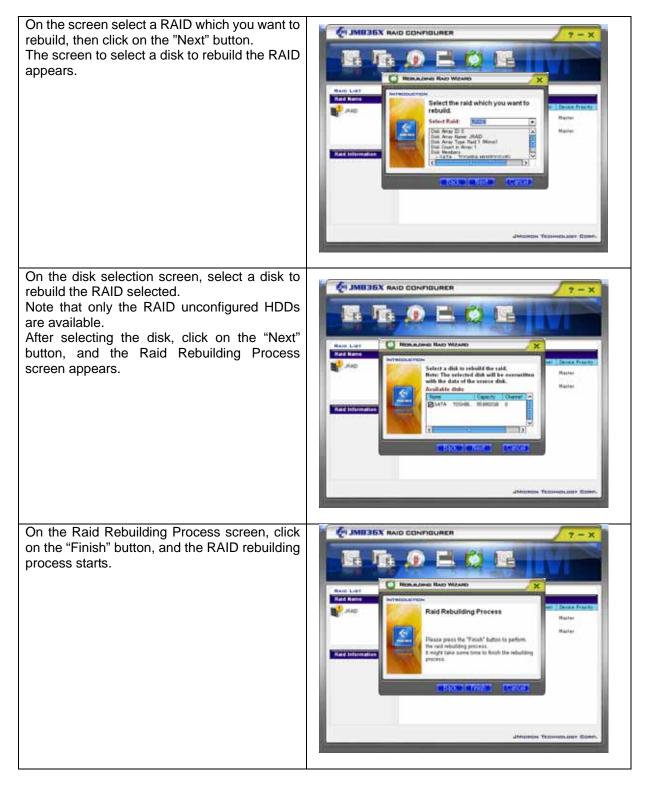
TOSHIBA TEC CORPORATION EAA-02637

While rebuilding, It is displayed with "Rebuilding xx% ,please wait" under the screen. (When xx becomes 100%, it means rebuilding has completed.)	Minree Schwaings Cory. There SMI1(rist Mills Controller Mills of Mills) Create Mills Diak Drive Relate Mills Diak Drive Reset Mills to Nor Mills Solve Mirree Carliet Relati Mirree Arive Rebuild Nurse Carliet Rebuild Nurse Carliet Solve Mirree Carliet Rebuild Nurse Carliet Rebuild Nurse Carliet Mills Diak Brive List J Image State States Control Solve Mills Sould Mills Solve Mirree Rebuild Nurse Carliet Mills Diak Brive Rebuild Nurse Carliet Solve Mirree Carliet Rebuild Mirree Arive Rebuild Nurse Carliet Mills Solve Mirree Carliet Solve Mirree Carliet Rebuild Mills Solve Mirree Carliet Solve Mills Solve Hills Solve Mirree Carliet Solve Mirree Carliet Solve Mills Solve Hills Solve Mills Solve Mirree Carliet Solve Mills Solve Mirree Carliet Solve M
When rebuilding is completed, RAID status turns into "Normal" from "Rebuild".	Mapper Training Ster. This is the first fi
Select "Save And Exit Setup" from "[Main Menu]", and press the [Enter] key.	Alterna Tachandera Sara The transform of the
A confirmation screen ("Save to Disk &" Exit) is displayed, and press the [Y] key.	Annexe Strandmann Mary, I Ania Nama J C Mard Rick Norm Rickin Mill Rick Krive Rickin Mill Rick Rickin Millis Rickin Millis Rickin Mill Rick Rickin Rickin Mill Rick Rickin Rickin Mill Rick Rickin Rickin Millis Hill Rickin Millis Rickin Millis Mill Rickin Millis Hill Ricki

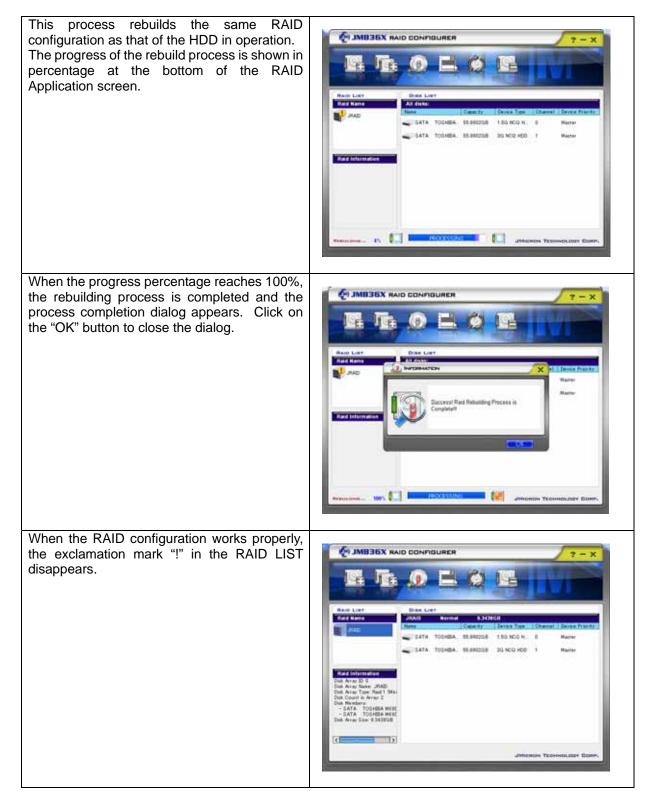
[Rebuild from Operating System]

Description	JMB36X RAID CONFIGURER Screen
After a short time since the power is turned on, the display stops at the RAID BIOS screen. On this screen, press the [Enter] key to start the operating system. Note the display always stops at this screen whenever the POS system is started up until the RAID is rebuilt.	Micron Technology Corp. FCIE-to-SATAIL/INE BAID Controller BIOS v1.06.83 Copyright (C) 2005 JHICron Technology. Diam 220 CD MHD Levels Mist: Hits-Sizi2I.stone Levels Mist: Jhits I-Hirror Mist: Cirl+J3 key to MHD Setup. Press (Ester) key to guit.
Clicking on the RAID Utility icon in the task bar displays information of the HDD being connected in the RAID LIST on the RAID application screen. [the RAID Utility icon]	PARE DATA Des bar Des bar Race bar Race bar Des bar Race bar
When the RAID unconfigured HDD is connected, the Rebuild Raid Wizard icon on the RAID Application screen indicated with the red box in the figure becomes effective. Click on this icon to show the Rebuild Raid Wizard dialog screen. Click on the "Next" button on the screen, and the screen to select a RAID, which you wan to rebuild, appears.	IMBUGE RAID CONFIGURER Image: Configure Configure

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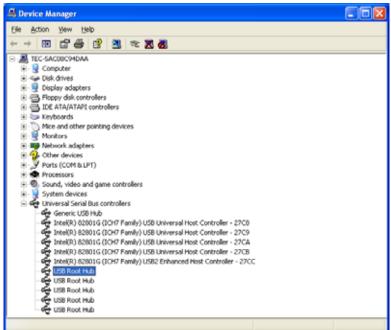


7. Notice and Limitation

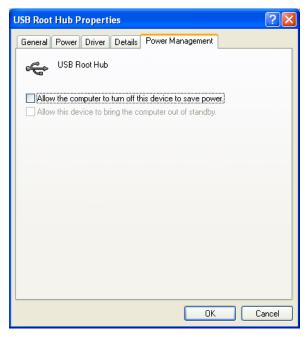
7.1. Notice

7.1.1. About Power management of USB-HUB

Open the "Device Manager", right-click on the "USB Root Hub" icon under the "Universal Serial Bus controllers", and then click on "Properties" to open the "USB Root Hub Properties" window.



Click on the "Power Management" tab. Uncheck the "Allow the computer to turn off this device to save power" check box, and click on the "OK" button.



About all the "USB Root Hub", you have to operate the above.

7.1.2. Setting of Wake On LAN

The LAN controller of ST-A20 possesses a function of the Wake On LAN. However, it is disabled in the default setting. When you need this function, you have to enable the Wake On LAN function by the following settings.

First, open the "Property" window. And click on the "Configure.." button. (Left-hand figure) Choose the Wake On LAN function as you like. (Right-hand figure)

etworking		
		stals
Connect using:	General Link Speed Advanced Power Mana	gement
Intel(R) PRO/100 VE Network Connection	Power Saver and Wake on LAN Options	
This connection uses the following items:	Power Saver Options:	
Client for Microsoft Networks Gamma Gamm	Reduce link speed during standby	
E File and Printer Sharing for Microsoft Networks	Wake on LAN:	
	Wake on Directed Packet	
	Wake on Magic Packet	- 11
Link-Layer Topology Discovery Responder	Wake on Magic Packet from power off state	+
	Wake on Directed Packet	
Install Uninstall Properties	Enables this device to bring the computer out of standby or hibernation when a packet is sent directly to the adapter.	^
Allows your computer to access resources on a Microsoft network.	For example, any attempt to remotely access files stored on the computer will wake it.	ų.
OK Cancel	OK	~ Cancel

There are four settings in Wake On LAN. Choose the best for your system.

Wake on directed packet

Enables this device to bring the computer out of standby or hibernation when a packet is sent directly to the adapter.

For example, any attempt to remotely access files stored on the computer will wake it.

Wake on Magic packet

Enables a management station to bring the computer out of standby or hibernation when a Magic Packet is sent directly to the adapter.

Wake on Magic Packet from power off state

Allows the adapter to wake an Advanced Power Management (APM) enabled system from a power-off (S5) state. ACPI systems can wake from an S5 state if the system's BIOS supports it.

Wake on Link

Allows the adapter to wake an Advanced Power Management (APM) enabled system from a power-off (S5) state when the network connection establishes link.

ACPI systems can wake from standby (S3) or Hibernate (S4). If the system's BIOS supports it, ACPI systems can wake from an S5 state.

NOTE: Link must be lost before the system enters an S5 state in order to wake the system with a link up event.

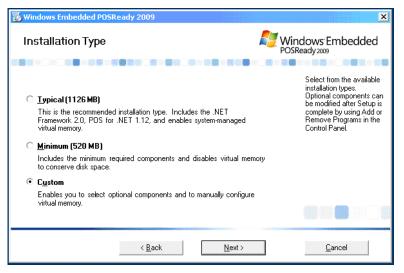
7.1.3. "Optional Components" setting in POSReady 2009 installation

It is necessary to select "Custom" installation on "Installation Type" and install "Additional Drivers" of "Optional Components" additionally in POSReady 2009 installation.

If "Typical" or "Minimum" is selected on "Installation Type", or "Additional Drivers" is not checked on "Optional Components", the screen that requests "*.sys" file or "*.dll" file is displayed during driver installation. (Chipset, Audio, OPOS driver, etc)

Refer to below instruction to install "Additional Drivers" of "Optional Components".

Select "Custom" on "Installation Type" and click on the "Next" button.



Check "Additional Drivers" on "Optional Components".

🐻 Windows Embedded POSReady 2009	×
Optional Components 🍂	Windows ⁻ Embedded
	
Net Framework 2.0 Accessories and Utilities Additional Drivers Fax Services Indexing Service Internet Information Services (IIS) Management and Monitoring Tools Message Queuing Networking Services Po S for .Net 1.12 Description: Includes device drivers needed during the installation of computer	 Select the optional software components you want to install. Optional components can be modified after Setup is complete by using Ad or Remove Programs in the Control Panel.
peripherals.	
Space required: 823 MB	
< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel

Check other options if necessary, and click on the "Next" button.

Follow the instructions of the Windows installer to complete the installation.

7.2. Limitation

7.2.1. Limitation about Graphic Driver

The graphic driver of ST-A20 possesses Hot Key (shortcut key) to offer the option settings.

However, we strongly recommend that you don't use it. When you take the wrong handling of this hot key, inconveniences in the display and false setting with the touch panel occur.

Graphics Media Accelerator Driver for mobile	Hot Keys	S	cheme Options
Display Devices	Γ Enable Hot Keγs]	
Display Settings	Action Enable Notebook Enable/Disable Panel Fitting	Hot Keys <ctrl><alt>F3 <ctrl><alt>F11</alt></ctrl></alt></ctrl>	_
Color Correction	Open Graphics Property Application Rotate to Normal	<ctrl><alt>F12 <ctrl><alt>Up</alt></ctrl></alt></ctrl>	E
Hot Keys	Rotate 90 Degrees Rotate 180 Degrees	<ctrl><alt>Left <ctrl><alt>Dov</alt></ctrl></alt></ctrl>	vn 📮
(intel)		Restore	Defaults
Launch Zoom	3D Settings		_
and the second second			

So that Hot Key does not work carelessly, you should disable it by above settings.

For example, if you work Hot Key of "Static Device Detection" carelessly, driver recognize the television device which is the inside device of the chip set.

Such an unnecessary indication disappears by rebooting.

However, changing the setting of unnecessary device causes the unexpected malfunction.

7.2.2. Limitation of Windows Time Service

In usual Windows system, Windows Time Service adjusts system time automatically via network with NTP protocol.

Usually, this service functions effectively in the environment that can access the Internet.

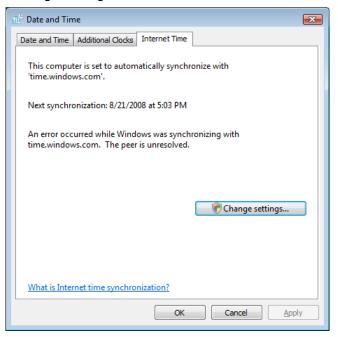
However, it does not function definitely in the network environment of the local area.

The self-adjustment function of the clock does not work unless above service functions definitely. And it generates a gap in the standard time.

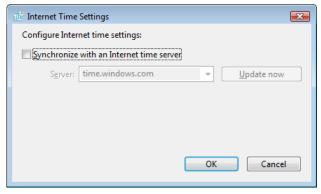
So, we recommend that you stop this service when using ST-A20 in the environment that does not connect with the Internet.

This service can be stopped by sequences below.

Open "Date and Time" from "Control Panel". And then, select the "Internet Time" tab and click on the "Change settings..." buttion.



Uncheck the "Synchronize with an Internet time server" check box.



- 0 × 😸 🕨 Control Panel 🕨 ✓ ↓ Search 9 Name * Category Control Panel Home P Classic View 5 0 Adminia Configure administrative settings for your computer, and e Toors resoure c... management nme Add Default Programs Hardware 1= Ε Device Ease of Elo Folder Fonts Game Indexing Manager Acce... Touchscreen Options Controllers Options

Next, open "Administrative Tools" from "Control Panel".

And then, open "Services" as below.

Organize 👻 📗 Vie	ws 🔻 🛄 Open		_		
vorite Links	Name	Date modified	Туре	Size	
Documents	🛃 Computer Management	7/18/2008 11:49 AM	Shortcut	2 KB	
	Data Sources (ODBC)	11/2/2006 9:53 PM	Shortcut	2 KB	
Pictures	Event Viewer	11/2/2006 9:54 PM	Shortcut	2 KB	
Music	🙈 iSCSI Initiator	11/2/2006 9:54 PM	Shortcut	2 KB	
Recently Changed	🛃 Local Security Policy	7/18/2008 11:49 AM	Shortcut	2 KB	
Searches	Memory Diagnostics T	11/2/2006 9:53 PM	Shortcut	2 KB	
Public	Print Management	11/2/2006 9:55 PM	Shortcut	2 KB	
1.1.1.1.1.1.1	Reliability and Perform	-7/18/2008 11:49 AM	Shortcut	2 KB	
C	Services	7/18/2008 11:49 AM	Shortcut	2 KB	
	System Configuration	11/2/2006 9:53 PM	Shortcut	2 KB	
	Task Scheduler	11/2/2006 9:54 PM	Shortcut	2 KB	
	Windows Firewall with		Shortcut	2 KB	

From displayed service, double-click the "Windows Time" as below.

te ab III III I						
Services (Local)	 Services (Local) 					
	Windows Time	Name	Description	Status	Startup Type	Log On As
	20.02000	Windows Connect	Act as a Reg_		Manual	Local Service
	Description: Maintains date and time	Windows Defender	Scan your c	Started	Automatic	Local Syste
	synchronization on all clients and	Windows Driver F.,	Manages us	Started	Automatic	Local Syste
	servers in the network. If this service	Windows Error Re	Allows error	Started	Automatic	Local Syste
	is stopped, date and time	Windows Event C	This service		Manual	Network S
	synchronization will be unavailable. If this service is disabled, any services	Windows Event Log	This service	Started	Automatic	Local Service
	that explicitly depend on it will fail to	Windows Firewall	Windows Fi	Started	Automatic	Local Service
	start.	🖏 Windows Image A	Provides im	Started	Automatic	Local Service
		🖾 Windows Installer	Adds, modi		Menual	Local Syste.
		A Windows Manage	Provides a c	Started	Automatic	Local Syste.
		Windows Media P	Shares Win		Menual	Network S
		Windows Module	Enables inst		Menual	Local Syste
		Q Windows Presenta	Optimizes p		Manual	Local Service
		Windows Remote	Contraction of the second		Manual	Network S.,
		Windows Search	Provides co	Started	Automatic	Local Syste.
		Q Weidows Time	Maintaint d		Disabled	Local Service
		Windows Update	Enables the	Started	Automatic (D_	Local Syste

In the service setup window, change the Startup type value from "Automatic" to "Disabled" as below.

ieneral Log On	Recovery Dependencies	
Service name:	W32Time	
Display name:	Windows Time	
Description:	Maintains date and time synchronization on all clients and servers in the network. If this service is	
Path to executa C:\Windows\sy	ble: stem32\svchost.exe -k LocalService	Path to executable: C:\Windows\system32\svchost.exe +k LocalService
Startup type:	Automatic	Startup type: Disabled
Help me configu	re service startup options.	Help me configure service startup options.
Service status:	Stopped	
Start	Stop Pause Resume	
	the start parameters that apply when you start the service	
ana na an	e [*	
from here. Start parameters	s:	

If you need detail information about it, refer to the technical support site of Microsoft. There is detail information about it

7.2.3. Warning message on Control Panel of Touch Panel driver

As a default, the ST-A20 shows the following warning on the control panel of the touch panel.

eneral Mode Sound Properties 1	About
Windows monitor number:	1 🗸
Touchscreen type:	AccuTouch
Connection Port:	COM6
Controller model:	SCOACh [2.0 - 0.0]
Controller Status:	Error Code (0x10)
Controller Serial Number:	000000
Video Alignment	1
Identify Align	Advanced

You have to change a value of the next registry to use it definitely.

\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\SERENUM\ELOSERIAL\xxxxx\Devic eParameters\HardwareHandshaking

Note: The part of above "xxxxx" is a monitor ID. Refer to the following window.

📸 Registry Editor				x
File Edit View Favorites Help				e e
D - 📕 Control	*	Name	Туре	*
Control Co	E	Name WErnYCoef38 ErnYCoef39 EnableQuickTouch ExclusionFlag FullScreenBounds FullScreenVmode HardwareHandshaking EcftHandedUser MaxDragDelay MaxRightClickDelay Migrated MinDragDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MinRightClickDelay MouseMode MinRightClickDelay M	Type REG_DWORD REG_W	· · ·
Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enu	m\SERENUN	1\ELOSERIAL\5&1fc7c1b0&0&000	\Device Parameters	

Default is 1 (Left-hand figure). Change it to 0(Right-hand figure).

Edit DWORD (32-bit)	Value	Edit DWORD (32-bit)	Value
Value name:		Value name: HardwareHandshakin	a a a a a a a a a a a a a a a a a a a
HardwareHandshaking Value data: Base Hexadecimal OK Cancel		Value data:	Base Hexadecimal Decimal OK Cancel

In "Properties1" and "Properties2" tab, there are three items to become the "Not Available" indication after changing registry setting.

Touchscreen Type Controller model Controller Status

Elo Touchscreen Properties	Elo Touchscreen Properties
General Mode Sound Properties 1 Properties 2 About	General Mode Sound Properties 1 Properties 2 About
Screen Information	Screen Information
Windows monitor number: 1	Windows monitor number: 1
Touchscreen type: Not Available	Touchscreen type: Not Available
Connection Port: COM2	Connection Port: COM6
Controller model: Not Available	Controller model: Not Available
Controller Status: Not Available	Controller Status: Not Available
Controller Serial Number: 000000	Controller Serial Number: 000000
Video Alignment Identify Align Monitor Advanced	Video Alignment Identify Align Advanced
Ok Cancel Apply Help	Ok Cancel Apply Help

It mean, the reason is because it stopped the acquisition / an indication function of the hardware information by a setting change of the registry, and there is not the influence in touch panel performance.

7.2.4. About the necessity of the touch panel reset related to a setting change of the display

When you changed the resolution / indication method of the display via Intel Graphic Driver, it is recommended that you set the touch panel function using the "Video Alignment" function.

Because the touch panel driver doesn't do the automatic adjustment by itself when the setting of graphic changes.

Otherwise the wrong click point of the touch panel might happen unless you do this procedure.