

## **ST-B20 Windows Driver Kit Release notes**

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**Supplies**

The ST-B20 Windows Driver Kit supplies the following items:

- ◆ ST-B20 POS Driver Kit

**Intel Chipset, Graphic, Network , Audio Drivers**

The followings are the Network and Audio drivers that support the Intel.  
For Windows XP, Vista, WEPOS, POS Ready 2009/7, Windows7

| Driver                                     | 32-bit        | 64-bit        |
|--------------------------------------------|---------------|---------------|
| Intel® Chipset Device Software             | V1.1.35.0     | V1.1.43.0     |
| Intel(R) Graphics Media Accelerator Driver | V2.11.15.0    | V2.11.15.0    |
| Intel(R) Network Connection                | V4.0.100.1124 | V4.0.100.1124 |

The following drivers are audio driver and touch panel driver

| Driver             | 32-bit         | 64-bit         |
|--------------------|----------------|----------------|
| Realtek AC97 Audio | V11.50.0.42618 | V11.50.0.42618 |
|                    |                |                |

**Drivers of devices connected to TFTST-56, LKBST-65, TFTST-76, TFTST-B20**

The following are the drivers of devices connected to TFTST-56, LKBST-65, TFTST-76, and TFTST-B20.

**[TFTST-56 LKBST-65]**

- ◆ FCL Serial Touch Panel Driver for Windows 2000, XP, WEPOS, POSReady 2009 V1.0.1.1
- ◆ FCL Serial Touch Panel Driver for Windows Vista, 7 V1.0.0.2
- ◆ Silicon Motion Lynx(TM) Mobile Computer Display Controller for Windows 2000 V5.13.1.241
- ◆ Silicon Motion Lynx(TM) Mobile Computer Display Controller for Windows XP, WEPOS, POSReady 2009 V6.13.10.238
- ◆ Silicon Motion Lynx(TM) Mobile Computer Display Controller for Windows Vista, 7, V6.13.1.283
- ◆ SMK touch panel driver for Windows 2000, XP, WEPOS, POSReady 2009, Vista, 7, V2.0.1.0

**[TFTST-76]**

- ◆ FCL Serial Touch Panel Driver for Windows 2000, XP, WEPOS, POSReady 2009 V1.0.2.7
- ◆ PL-2303 Driver for Windows 2000, XP, WPOS V2.0.2.0
- ◆ PL-2303 Driver for Windows Vista, 7. V14.0.0.162

**[TFTST-B20]**

- ◆ Elo Touch Systems Driver Package for Windows V5.4.1

**ST-B20 POS Drivers Kit**

The followings are the POS drivers for ST-B20.

- ◆ OPOS Control Kit for ST-B20 (for Windows 2000/WEPOS/POSReady 2009/XP/Vista/7/POSReady 7)

TEC OPOS Control for ST-B20 V001.010

| <i><b>Device</b></i>                         | <i><b>Version</b></i> | <i><b>OPOS Device Name</b></i> | <i><b>Document</b></i>         |
|----------------------------------------------|-----------------------|--------------------------------|--------------------------------|
| PKBST-5x Keylock                             | 1.0.0.2               | PKBST                          | TecOpos.pdf → Section 6.1      |
| PKBST USB Keylock                            | 1.9.0.0               | PKBSTUB                        | USB PKBST KeylockAPG.pdf       |
| KITST-A10-BTNK Electronic Keylock            | 1.11.0.2              | STA10EKEY                      | ST-A10 KeylockAPG.pdf          |
| LIUST-51 LineDisplay                         | 1.2.0.14              | LIUST51                        | TecOpos.pdf → Section 5.1      |
| LIUST-51 LineDisplay (Extension)             | 1.2.0.14              | LIUST51.EX                     | TecOpos.pdf → Section 5.2      |
| LIUST-53 LineDisplay                         | 1.2.0.0               | LIUST53                        | TecOpos.pdf → Section 5.4      |
| LIUWD-111 LineDisplay                        | 1.2.0.15              | WD111                          | LineDisplay<br>LIUWD111APG.pdf |
| DRWST-5x Cash Drawer                         | 1.2.0.7               | DRWST                          | TecOpos.pdf → Section 4.1      |
| DRWST-5x Cash Drawer (Extension)             | 1.2.0.5               | DRWEX                          | TecOpos.pdf → Section 4.2      |
| TRST-A1x USB Cash Drawer                     | 1.8.0.1               | DRWA1U                         | TRSTA1xAPG7th.pdf              |
| TRST-A1x Serial Cash Drawer                  | 1.8.0.2               | DRWA1S                         | TRSTA1xAPG7th.pdf              |
| TRST-A1x Parallel Cash Drawer                | 1.8.0.1               | DRWA1P                         | TRSTA1xAPG7th.pdf              |
| TRST-A1x LAN Cash Drawer                     | 1.8.0.1               | DRWA1L                         | TRSTA1xAPG7th.pdf              |
| MCRST-5x MSR                                 | 1.0.0.3               | MCRST                          | TecOpos.pdf → Section 7.1      |
| PKBST USB MSR                                | 1.8.0.4               | MCRSTUB                        | USB PKBST MSRAPG.pdf           |
| MCRST-A10 MSR                                | 1.8.0.2               | MCRRMS                         | ST-A10 MSRAPG.pdf              |
| MCRST-76 MSR                                 | 1.5.0.4               | JP-1280                        | MCRST76 MSRAPG.pdf             |
| TRST-52 Parallel POS Printer                 | 1.2.0.13              | TRST52P                        | TecOpos.pdf → Section 8.1      |
| TRST-52 Serial POS Printer                   | 1.2.0.13              | TRST52S                        | TecOpos.pdf → Section 8.2      |
| TRST-56 Parallel POS Printer                 | 1.2.0.1               | TRST56P                        | TecOpos.pdf → Section 8.5      |
| TRST-56 Serial POS Printer                   | 1.2.0.1               | TRST56S                        | TecOpos.pdf → Section 8.6      |
| TRST-A1x USB POS Printer                     | 1.8.0.36              | TRSTA1U                        | TRSTA1xAPG7th.pdf              |
| TRST-A1x Serial POS Printer                  | 1.8.0.35              | TRSTA1S                        | TRSTA1xAPG7th.pdf              |
| TRST-A1x Parallel POS Printer                | 1.8.0.35              | TRSTA1P                        | TRSTA1xAPG7th.pdf              |
| TRST-A1x LAN POS Printer                     | 1.8.0.36              | TRSTA1L                        | TRSTA1xAPG7th.pdf              |
| HS-530-RS Serial Barcode Scanner             | 1.2.0.12              | RSSCANNER                      | TecOpos.pdf → Section 9.1      |
| HS-530-RS Serial Barcode Scanner (Extension) | 1.2.0.8               | RSSCANNER.<br>EX               | TecOpos.pdf → Section 9.2      |

- ◆ OPOS Driver Kit for ST-B20 (for Windows 2000/WEPOS/POSReady 2009/XP/Vista/7/ POSReady 7)

TEC OPOS Driver for ST-B20 V001.010

| <b><i>Device</i></b>       | <b><i>Document</i></b>                          |
|----------------------------|-------------------------------------------------|
| CashDrawer Driver          | –                                               |
| 7SEG LED Driver            | 7SEG Library External Spec.pdf                  |
| Sensor Driver              | Sensor Library External Spec.pdf                |
| PS/2 POSKeyboard Modules   | –                                               |
| USB POSKeyboard Modules    | –                                               |
| WD-111 LineDisplay Library | WD-111 LineDisplay Library<br>External Spec.pdf |
| Watchdog Timer Driver      | Windows WDT Spec.pdf                            |

- ◆ TEC USB Driver (for Windows 2000/XP/WEPOS/POSReady 2009/Vista/7)
- ◆ Set Keyboard Application V2.0.0.0
- ◆ TEC Event Monitor application V1.0.0.1

### **JMicron RAID Driver**

The following is the RAID drivers.

- ◆ JMicron JMB36X Driver for Windows R1.17.49.04
- ◆ TEC RAID API for JMicron RAID Driver V001.000

**Change history**

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V001.000 | <b>New Release.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| V001.001 | <p><b>1. Upgrade of the OPOS Control installer. (V001.000-&gt;V001.001)</b></p> <ul style="list-style-type: none"> <li>- Support of FontSize2(TRSTA1x).</li> <li>- Support of New CashDrawer OPOS(connected to TRST-A1x).</li> <li>- Fault correction of TRSTA1x OPOS.               <ol style="list-style-type: none"> <li>1. Correction of the code128 print logic in the case of inputting odd columns.</li> <li>2. Correction of the Control Panel about the registry setting of the both sidesprinting.</li> <li>3. Correction of the phenomenon that printing is not possible when carrying outClaim-Release repeatedly.</li> <li>4. Correction of the phenomenon that garbage is printed by rotary printing.</li> </ol> </li> </ul> <p><b>2. Upgrade the OPOS Driver installer. (V001.000-&gt;V001.001)</b></p> <ul style="list-style-type: none"> <li>- Fault correction of Sensor driver. Correction of logic for getting sensor value. Especially, the logic when CPU fan stops.</li> <li>- Add lib files and header files for developers.</li> </ul> <p><b>3. Edit "ST-B20_Windows_Setup_Guide.pdf".</b></p> <ul style="list-style-type: none"> <li>- Edit "5.3.3 Replacement of HDD" chapter.</li> </ul> <p><b>4. Upgrade the 7SEG LED driver's document.</b></p> <ul style="list-style-type: none"> <li>- Fault correction of the document.</li> </ul> |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V001.002 | <p><b>1. Upgrade of the OPOS Control installer. (V001.001-&gt;V001.002)</b></p> <ul style="list-style-type: none"> <li>- Fault correction of TRSTA1x OPOS.<br/>TRSTA1P.dll, TRSTA1S.dll, TRSTA1U.dll (V1.8.0.32 -&gt; V1.8.0.33)<br/>TECShareParallel.dll, TECShareSerial.dll, TECShareUSB.dll<br/>(V001.000 -&gt; V001.001)</li> <li>TECSParallelMgr.exe, TECSSerialMgr.exe, TECSUSBMgr.exe<br/>(V001.000 -&gt; V001.001)</li> </ul> <p>1.1. Correction of the phenomenon that simultaneous use of POSPrinter and CashDrawer is impossible in the same process. (target : all devices)</p> <p>1.2. Correction of memory leak by repetition of Open-Close method. (target : all devices)</p> <p>1.3. Correction of the phenomenon that OPOS locks it infrequently during device use. (target : all devices)</p> <p>1.4. Correction of the phenomenon that Claim method does infrequently time-out by USB POSPrinter</p> <p>1.5. Correction of the phenomenon that Open method fails infrequently in an overload state. (target : all devices)</p> <p><b>2. Addition of the file related to JMicon RAID Driver.</b></p> <ul style="list-style-type: none"> <li>- Added the "driverinstall.xml" file for WEPOS.</li> </ul>                                                                                                                                                                                                                                                                                                                              |
| V001.003 | <p><b>1. Upgrade "ST-B20_Windows_Setup_Guide.doc"</b></p> <ul style="list-style-type: none"> <li>- Add "3.3. Installation for Operating System (POSReady 2009)" to install the RAID driver for POSReady 2009.</li> <li>- Edit "3.4. Installation for Intel Chipset Software" to install the chipset driver for POSReady 2009.</li> <li>- Edit "3.7. Installation for Realtek Audio Driver" to install the Audio driver for POSReady 2009.</li> <li>- Edit the path of file for POSReady 2009 as following<br/>"Folder Configuration"</li> </ul> <p><b>2. Upgrade "DRVInst.pdf"</b></p> <ul style="list-style-type: none"> <li>- Edit "2.3 Setup of driver" for POSReady 2009.</li> </ul> <p><b>3. Edit below document to add "support POSReady 2009"</b></p> <ul style="list-style-type: none"> <li>- "ST-B20_Windows_Setup_Guide.pdf"</li> <li>- "TFTST-56, LKBST-65(PCI_Card)_Setup_Guide.pdf"</li> <li>- "TFTST-76_Setup_Guide.pdf"</li> <li>- "TFTST-A20, TFTST-B20_Setup_Guide.pdf"</li> <li>- "7SEG Library External Spec.pdf"</li> <li>- "DRVInst.pdf"</li> <li>- "Event Log Monitor Function External Spec.pdf"</li> <li>- "JMicon RAID API Spec_1st.pdf"</li> <li>- "OPOSInst.pdf"</li> <li>- "Sensor Library External Spec.pdf"</li> <li>- "ST-A10 KeylockAPG.pdf"</li> <li>- "ST-A10 MSRAPG.pdf"</li> <li>- <del>"TRSTA1xAPG.pdf"</del></li> <li>- "Windows WDT Spec.pdf"</li> </ul> <p><b>4. Edit the folder name for POSReady 2009</b></p> <ul style="list-style-type: none"> <li>- Refer to following "Folder Configuration"</li> </ul> |

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| <b>V001.004</b>      | <p><b>Upgrade of the OPOS Control installer. (V001.002-&gt;V001.004)</b></p> <ol style="list-style-type: none"> <li>1. TRST-A1x OPOS Control             <ol style="list-style-type: none"> <li>1.1.Support of TRST-A10 LAN POS Printer and CashDrawer connected to Printer.<br/>TRSTA1L.dll(V1.8.0.34 New release)<br/>DRWA1L.dll(V1.8.0.1 New release)<br/>TECShareLAN.dll(V001.002 New release)<br/>TECSLANMgr.exe(V001.002 New release)<br/>Tecpos.cpl(V002.021 -&gt; V002.022)<br/>SetBitmapTool.exe(V001.000 -&gt; V001.001)</li> <li>1.2.Fault correction of the OPOS Control Application Programmer's Guide<br/>Correction of the BitMap number that I can register.(target : TRST-A1x-P/S/U)<br/>[Fault] 1 to 10 -&gt; [Right] 1 to 11</li> <li>1.3.Fault correction of OPOS.<br/>TRSTA1P.dll,TRSTA1S.dll,TRSTA1U.dll (V1.8.0.33 -&gt; V1.8.0.34)<br/>DRWA1P.dll,DRWA1S.dll,DRWA1U.dll (V1.8.0.0 -&gt; V1.8.0.1)<br/>TECShareParallel.dll, TECShareSerial.dll, TECShareUSB.dll<br/>(V001.001 -&gt; V001.002)<br/>TECSParallelMgr.exe, TECSSerialMgr.exe, TECSUSBMgr.exe<br/>(V001.001 -&gt; V001.002)</li> <li>1.3.1.Resource leaks occur when I setting DeviceEnabled property to "True" at the time of the state that DeviceEnabled property is "True".[for Boothes Supermarket]<br/>(target : TRST-A1x-P/S/U)</li> <li>1.3.2.The prevention that printing data fall out. (target : TRST-A1x-S)</li> <li>1.3.3.An error event does not occur in power supply OFF with an async mode.<br/>(target : TRST-A1x-S)</li> <li>1.3.4.OPOS crashes infrequently when I execute Release method during printing with an async mode. (target : TRST-A1x-P/S/U)</li> <li>1.3.5.When mass async printing data accumulation is in a state and execute ClearOutput method, OPOS locks it. (target : TRST-A1x-P/S/U)</li> <li>1.3.6.Misprint occurs infrequently when I use printer OPOS and cash drawer OPOS with an async mode at the same time. (target : TRST-A1x-P/S/U)</li> <li>1.3.7.OutputCompleteEvent occurs several times when I execute PrintBitmap method with an async mode. (target : TRST-A1x-P/S/U)</li> <li>1.3.8.When an error occurs during printing by TransactionPrint, I cannot execute TransactionPrint unless ClearOutput does whether you do Close-Open.<br/>(target : TRST-A1x-P/S/U)</li> <li>1.3.9.When an error occur at the time of a printing start by TransactionPrint, the last printing contents are printed at the time of the next TransactionPrint practice earlier. (target : TRST-A1x-P/S/U)</li> <li>1.3.10.At the time of PrintNormal practice during RotatePrint registration, I can output the paper back side and a surface appointment command.<br/>(target : TRST-A1x-P/S/U)</li> <li>1.3.11.OPOS does deadlock infrequently when Release method execution and paper empty event occur at the same time. (target : TRST-A1x-P)</li> </ol> </li> </ol> <p><b>Update JMicron RAID Driver (R1.17.47.09 -&gt; R1.17.49.04)</b><br/>Correction of COM3 overrun error problem.<br/>Correction of a blue screen occurrence when I do "Create RAID" in Operating System.</p> <p><b>Setup Guide Version up</b><br/>-"ST-B20_Windows_Setup_Guide.pdf"<br/>Add the procedure of CreateRAID with RAID Utility.<br/>Add Instructions about POSReady 2009.</p> |
| <b>March 09 2012</b> | - "DRVInst.pdf"<br>Add Instructions about POSReady 2009.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

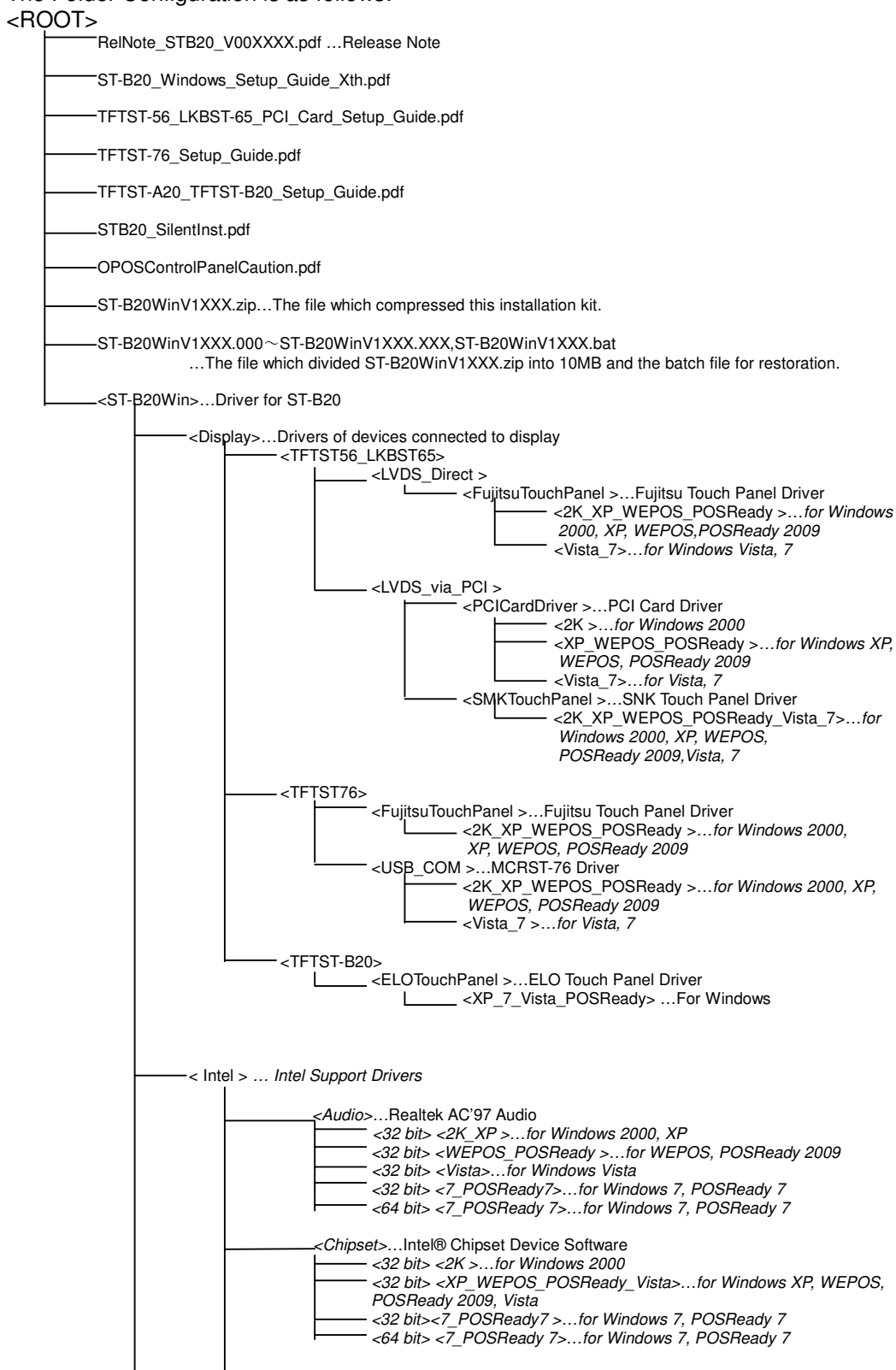
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V001.005 | <p><b>Upgrade of the OPOS Control installer (V001.004-&gt;V001.005)</b><br/>Modify OPOS Control Installer for Silent Installation.</p> <p><b>Upgrade of the OPOS Driver installer (V001.001-&gt;V001.002)</b><br/>Modify OPOS Driver Installer for Silent Installation.</p> <p><b>Setup Guide Version up</b><br/>-“DRVInst.pdf”<br/>Change setup process and picture.</p> <p>-“OPOSInst.pdf”<br/>Change setup process and picture.</p> <p><b>Add document about Silent Install</b><br/>Add “STB20_SilentInst.pdf”</p>                                                                                                                                                                                                                                                                                                                                                      |
| V001.006 | <p><b>Upgrade of the OPOS Control installer (V001.005-&gt;V001.006)</b><br/>Modify OPOS Control Installer for Silent Installation.<br/>-Add PKBST USB Keylock OPOS(KEYLCKUB.dll)<br/>-Add PKBST USB MSR OPOS(USBMSR.dll)<br/>-Add WD-111 LineDisplay OPOS(Liuwd111.dll)</p> <p><b>Upgrade of the OPOS Driver installer (V001.002-&gt;V001.003)</b><br/>Modify OPOS Driver Installer for Silent Installation.<br/>-Add USB POSKeybaord Modules<br/>-Add WD-111 LineDisplay Library(WD111.dll)</p> <p><b>Upgrade Tools</b><br/>-Upgrade SetPOSKB(V1.0.0.1-&gt; V2.0.0.0)<br/>-Upgrade EventMonitor(V1.0.0.0-&gt;V1.0.0.1)</p> <p><b>Setup Guide Version up</b><br/>-“DRVInst.pdf”<br/>Edit “Uninstallation”.<br/>-“OPOSInst.pdf”<br/>Edit “Uninstallation”.</p> <p><b>Upgrade “ST-B20_Windows_Setup_Guide.doc”</b><br/>Edit “Dual Display connection combinations list”.</p> |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| V001.007 | <p><b>Upgrade of the OPOS Control installer (V001.006-&gt;V001.007)</b><br/> Update the version number of OPOS Control Installer.<br/> Replace the module of OPOS Control.<br/> - TRST-A1x OPOS Control<br/>     Replace the TRSTA1L.dll(V1.8.0.34 -&gt; V1.8.0.35)<br/>     Replace the TRSTA1U.dll(V1.8.0.34 -&gt; V1.8.0.35)<br/>     TECShareUSB.dll(V001.004 -&gt; V001.005)<br/>     TECSUSBMgr.exe(V001.004 -&gt; V001.005)</p> <p><b>Upgrade of the OPOS Driver installer (V001.003-&gt;V001.004)</b><br/> Update the version number of OPOS Driver Installer.</p> <p><b>Setup Guide Version up</b><br/> -“DRVInst.pdf”<br/> -“OPOSInst.pdf”</p> <p><b>Upgrade “ST-B20_Windows_Setup_Guide”</b><br/> Add the “5. Setup for Windows 7 professional”</p> <p><b>Upgrade “TFTST-56,LKBST-65(PCI_Card)_Setup_Guide”</b><br/> <b>Upgrade “TFTST-76_Setup_Guide”</b><br/> <b>Upgrade “TFTST-A20,TFTST-B20_Setup_Guide”</b><br/> Add the “support Windows 7” to related part.</p> <p><b>Evaluate Vendor driver &amp; OPOS drivers of Windows 7 Phase1 support</b><br/> Test with Windows Embedded standard 7 environment.<br/> Device of Windows 7 Phase 1 Support<br/> - Touch Panel: ELO Touch Panel<br/> - Line Display: LIUST-51, LIUST-A10/A00<br/> - Drawer: TEC DRWST Cash Drawer<br/> - MSR: MCRST-A10<br/> - POS Printer: TRST-A1x (Serial, Parallel, USB, LAN)</p> |
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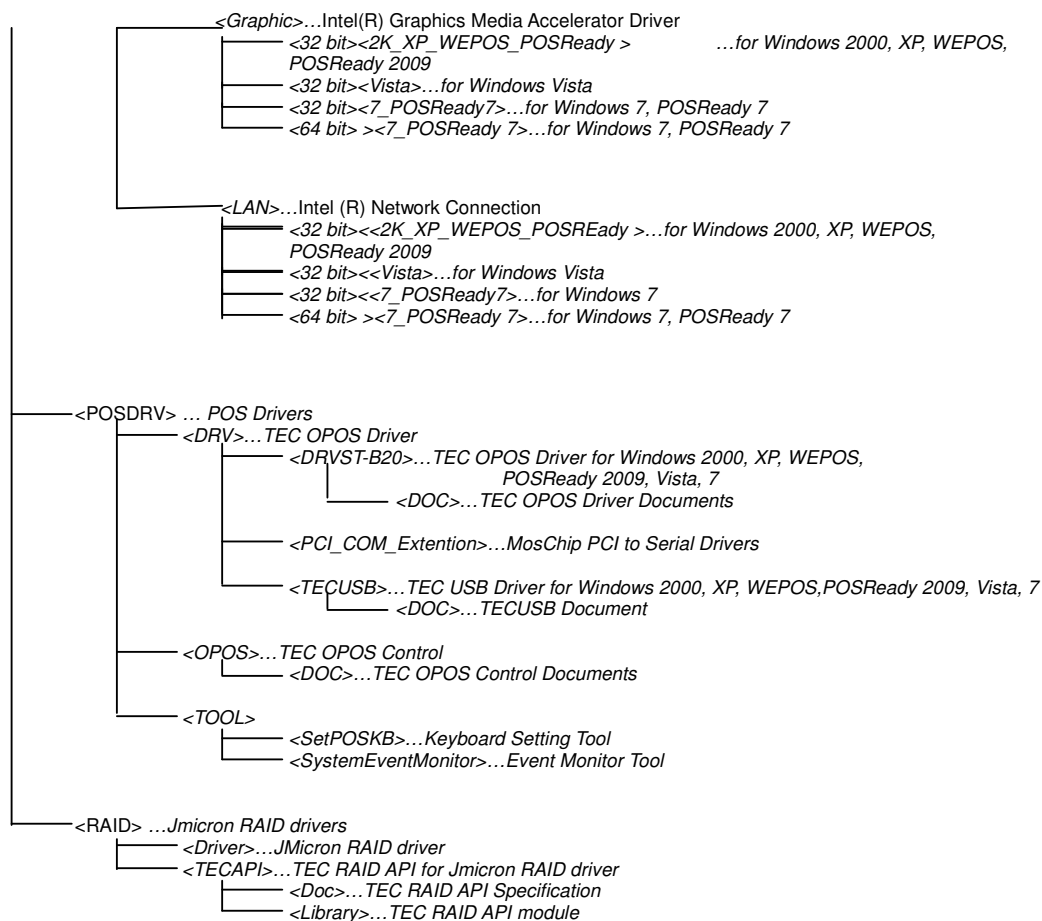
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| V001.008 | <p><b>Evaluate Vendor driver &amp; OPOS drivers of Windows 7 Phase2 support</b><br/> Test with Windows Embedded standard 7 environment.<br/> Device of Windows 7 Phase 2 Support: Phase 1 device and below</p> <ul style="list-style-type: none"> <li>- TFT: TFTST-A20/B20, TFTST-A10/B10, TVS TFT</li> <li>- POS Keyboard: PKBST52</li> <li>- Line Display: LIUST-53, WD-111</li> <li>- Drawer: EPSON type drawer, Korea Drawer</li> <li>- MSR: MCRST50, MCRST52, MCRST-76</li> <li>- MSR K/B wedge: MCRST50, MCRST52, MCRST-76, MCRST-A10</li> <li>- POS Printer: TRSTJ-52, TRST-56, TRST-A00</li> <li>- Scanner: HS-530-RS</li> <li>- Touch Panel: TFTST56/65(LVDS Direct) Fujitsu Touch Panel</li> </ul> <p>All devices are supported by this phase</p> <p><b>Upgrade “TFTST-76_Setup_Guide”</b><br/> MCRST-76 part is updated for Windows 7 support</p> <p><b>Add Windows 7 driver for MCRST-76</b><br/> MCRST-76 driver is updated for Windows 7 support</p> |
| V001.009 | <p><b>Evaluate Vendor driver &amp; OPOS drivers with Windows 7 Professional</b></p> <p><b>Upgrade below modules</b><br/> Add the LIUST-A00 setting panel. And counter to Windows 7 UAC limitation</p> <ul style="list-style-type: none"> <li>- Replace the OPOS Control Panel (Ver.2.0.0.26 -&gt; Ver.2.0.0.27)</li> <li>- Replace the OPOS Check Health Program (Ver.1.0.0.7 -&gt; Ver.1.0.0.8)</li> </ul> <p>Correction of the writing Log function for Windows 7</p> <ul style="list-style-type: none"> <li>- Replace the TEC General USB library (Ver.1.0.0.5 -&gt; Ver.1.0.0.6)</li> <li>- Replace the TEC Log manager (Ver.1.0.1.4 -&gt; Ver.1.0.1.5)</li> </ul> <p><b>Upgrade below installer</b><br/> Correction of the Install Path problem of old installer</p> <ul style="list-style-type: none"> <li>- OPOS Installer</li> <li>- Driver Installer</li> </ul>                                                                                           |
| V001.010 | <p><b>Support POSReady 7 (32 bit &amp; 64 bit)</b><br/> <b>* TEC Driver and OPOS Driver is not supported in POSReady 7 (64 bit)</b></p> <p><b>* 64 bit OS is not supported in Celeron model.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Folder Configuration

The Folder Configuration is as follows:



March 09 2012



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## OPOS Control

| Filename             | Version   | Date       | Time     |                                             |
|----------------------|-----------|------------|----------|---------------------------------------------|
| Oposdisp.ocx         | 1.0.0.3   | 2000/12/19 | 19:00:46 | LineDisplay OPOS CO                         |
| Liust51.dll          | 1.2.0.14  | 2004/10/07 | 16:59:40 | LIUST-51 LineDisplay OPOS SO                |
| Liu51Ex.dll          | 1.2.0.14  | 2004/10/07 | 17:00:32 | LUST-51 LineDisplay OPOS SO (Extension)     |
| Liust53.dll          | 1.2.0.0   | 2001/03/22 | 20:14:42 | LIUST-53 LineDisplay OPOS SO                |
| Liuwd111.dll         | 1.2.0.15  | 2009/12/08 | 09:36:11 | LIUWD-111 LineDisplay OPOS SO               |
| KEYLOCK.ocx          | 1.11.0.1  | 2008/06/16 | 10:11:20 | Keylock OPOS CO                             |
| eKeyOPOS.dll         | 1.11.0.2  | 2009/10/06 | 19:46:58 | iButton OPOS SO                             |
| Pkbst.dll            | 1.0.0.2   | 2000/12/19 | 18:59:38 | PKBST OPOS SO                               |
| KEYLOCKUB.dll        | 1.9.0.0   | 2006/10/10 | 15:57:34 | PKBST USB Keylock OPOS SO                   |
| MSR.ocx              | 1.8.0.0   | 2007/02/07 | 18:32:40 | MCR OPOS CO                                 |
| MCR RMS.dll          | 1.8.0.2   | 2008/08/21 | 14:17:24 | ST-A10 MSR OPOS SO                          |
| St55msr.dll          | 1.0.0.3   | 2010/01/27 | 00:08:08 | MCRST-5x MSR OPOS SO                        |
| USBMSR.dll           | 1.8.0.4   | 2008/10/14 | 10:27:10 | PKBST USB MSR OPOS SO                       |
| MsrSO.dll            | 1.5.0.4   | 2007/11/29 | 09:40:50 | MCRST-76 MSR OPOS SO                        |
| Oposdrw.ocx          | 1.8.0.0   | 2009/04/02 | 13:56:02 | CashDrawer OPOS CO                          |
| DRWSO.dll            | 1.2.0.7   | 2007/11/30 | 16:49:38 | DRST-5x OPOS SO                             |
| Drwex.dll            | 1.2.0.5   | 2008/01/22 | 21:17:26 | DRST-5x OPOS SO(Extension)                  |
| DRWA1U.dll           | 1.8.0.1   | 2009/10/20 | 22:46:53 | TRSTA1U(USB) Cash Drawer OPOS SO            |
| DRWA1S.dll           | 1.8.0.2   | 2010/01/21 | 20:52:19 | TRSTA1S(RS232C) Cash Drawer OPOS SO         |
| DRWA1P.dll           | 1.8.0.1   | 2009/10/20 | 22:48:03 | TRSTA1P(Parallel) Cash Drawer OPOS SO       |
| DRWA1L.dll           | 1.8.0.1   | 2009/10/24 | 15:21:15 | TRSTA1L(LAN) Cash Drawer OPOS SO            |
| Oposscan.ocx         | 1.8.0.0   | 2004/10/13 | 15:42:12 | Scanner OPOS CO                             |
| Rsscanso.dll         | 1.2.0.12  | 2006/08/04 | 15:31:28 | HS-5x0 Serial Scanner OPOS SO               |
| RScanEX.dll          | 1.2.0.8   | 2004/01/15 | 12:42:46 | HS-5x0 Serial Scanner OPOS SO (Extension)   |
| OPOSPrinter.ocx      | 1.8.0.0   | 2004/10/13 | 15:39:10 | POSPrinter OPOS CO                          |
| Trjst52p.dll         | 1.2.0.13  | 2007/07/23 | 21:23:04 | TRJST-52 Parallel POSPrinter OPOS SO        |
| TRJST52S.dll         | 1.2.0.13  | 2007/07/23 | 21:20:45 | TRJST-52 Serial POSPrinter OPOS SO          |
| TRST56P.dll          | 1.2.0.1   | 2001/03/16 | 20:24:34 | TRST-56 Parallel POSPrinter OPOS SO         |
| TRST56S.dll          | 1.2.0.1   | 2001/10/26 | 17:20:34 | TRST-56 Serial POSPrinter OPOS SO           |
| TRSTA1U.dll          | 1.8.0.36  | 2010/09/29 | 16:54:54 | TRSTA1U(USB) POS Printer OPOS SO            |
| TRSTA1S.dll          | 1.8.0.35  | 2010/01/20 | 14:31:23 | TRSTA1S(RS232C) POS Printer OPOS SO         |
| TRSTA1P.dll          | 1.8.0.35  | 2010/01/20 | 12:39:22 | TRSTA1P(Parallel) POS Printer OPOS SO       |
| TRSTA1L.dll          | 1.8.0.36  | 2010/09/29 | 16:51:18 | TRSTA1L(LAN) POS Printer OPOS SO            |
| OPOSCHK.exe          | 1.0.0.8   | 2011/01/07 | 20:50:26 | Toshiba TEC OPOS Check Health Application   |
| SetBitmapTool.exe    | 1.0.0.1   | 2009/10/16 | 19:46:45 | Bitmap Registration to Flash ROM            |
| oposevmg.dll         | 1.2.0.4   | 2003/06/10 | 10:23:58 | OPOS Event Manager Library                  |
| logMngr.dll          | 1.0.1.5   | 2010/11/01 | 20:31:23 | Toshiba TEC LOG Manager Library             |
| oposhook.dll         | 1.0.0.1   | 2004/09/17 | 23:28:00 | OPOS Library                                |
| raslibc.dll          | 1.2.0.4   | 2004/08/06 | 13:05:24 | RAS Library                                 |
| MSCOMCTL.ocx         | 6.1.95.45 | 2002/12/20 | 14:02:44 | Windows Common Controls ActiveX Control DLL |
| comdlg32.ocx         | 6.0.84.18 | 2000/05/22 | 16:58:00 | Microsoft CDialog ActiveX Control DLL       |
| Tecpos.cpl           | 2.0.0.27  | 2010/11/29 | 15:44:52 | Toshiba TEC Control Applet                  |
| TECUSB.dll           | 1.0.0.6   | 2010/10/27 | 12:39:03 | Toshiba TEC USB Library                     |
| TECShareUSB.dll      | 1.0.0.4   | 2010/09/17 | 13:35:24 | TRST-A1x USB port share library             |
| TECShareSerial.dll   | 1.0.0.2   | 2009/10/26 | 20:39:54 | TRST-A1x Serial port share library          |
| TECShareParallel.dll | 1.0.0.2   | 2009/10/26 | 22:29:42 | TRST-A1x Parallel port share library        |
| TECShareLAN.dll      | 1.0.0.2   | 2009/10/26 | 22:35:46 | TRST-A1x LAN port share library             |

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|                     |         |            |          |                                     |
|---------------------|---------|------------|----------|-------------------------------------|
| TECSUSBMgr.exe      | 1.0.0.4 | 2010/09/17 | 13:14:20 | TRST-A1x USB port share driver      |
| TECSSerialMgr.exe   | 1.0.0.2 | 2009/10/26 | 22:42:16 | TRST-A1x Serial port share driver   |
| TECSParallelMgr.exe | 1.0.0.2 | 2009/10/27 | 20:42:35 | TRST-A1x Parallel port share driver |
| TECSLANMgr.exe      | 1.0.0.3 | 2010/01/07 | 09:39:29 | TRST-A1x LAN port share driver      |

### OPOS Driver (for Windows 2000)

| Filename      | Version       | Date       | Time     |                                       |
|---------------|---------------|------------|----------|---------------------------------------|
| DRW.INF       | -             | 2008/02/14 | 10:44:22 | CashDrawer Driver Setup INF file      |
| DRVDRW.sys    | 4.0.1381.1    | 2008/03/22 | 11:56:28 | CashDrawer Driver                     |
| drv7seg.inf   | -             | 2008/11/13 | 13:11:02 | 7SEG LED Driver Setup INF file        |
| DRV7SEG.sys   | 1.0.0.0       | 2008/11/13 | 13:12:30 | 7SEG LED Driver                       |
| 7SegDll.dll   | 1.0.0.0       | 2008/10/31 | 10:58:00 | 7SEG LED Driver Library               |
| 7SegDll.lib   | -             | 2008/10/31 | 10:58:00 | 7SEG LED Driver lib file              |
| SEG7D.h       | -             | 2008/10/22 | 21:28:42 | 7SEG LED Driver header file           |
| sensor.inf    | -             | 2008/10/03 | 17:40:36 | Sensor Driver Setup INF file          |
| DRVSENSOR.sys | 2.0.0.1       | 2009/04/08 | 10:28:55 | Sensor Driver                         |
| SENSOR.dll    | 1.0.0.0       | 2008/11/27 | 22:04:18 | Sensor Driver Library                 |
| SENSOR.lib    | -             | 2008/11/27 | 22:04:18 | Sensor Driver lib file                |
| SENSOR.h      | -             | 2008/11/10 | 16:26:58 | Sensor Driver header file             |
| StrSensor.h   | -             | 2008/09/18 | 10:01:50 | Sensor Driver header file             |
| install.exe   | -             | 2001/05/22 | 15:05:12 | Driver's Installer                    |
| KBFInst.exe   | 5.1.2600.1106 | 2007/07/12 | 22:39:34 | Keyboard Filter Driver's Installer    |
| KBFInst.inf   | -             | 2007/07/12 | 21:20:12 | Keyboard Filter Driver Setup INF file |
| kbfilter.sys  | 5.0.1636.1    | 2009/01/14 | 11:33:26 | Keyboard Filter Driver                |
| KeyMonHk.dll  | 2.0.0.2       | 2003/09/01 | 17:17:10 | Keyboard Hook Library                 |
| KeyMonHk.lib  | -             | 2007/03/31 | 14:26:06 | Keyboard Hook lib file                |
| KeyMonHk.h    | -             | 2007/03/31 | 14:26:06 | Keyboard Hook header file             |
| mkmgr.exe     | 1.0.0.0       | 2007/04/02 | 14:05:20 | PS/2 Msr & Keylock Control Program    |
| MSCOMCTL.OCX  | 6.1.95.45     | 2002/12/20 | 14:02:44 | Runtime Library                       |
| Posesc32.dll  | 2.0.0.4       | 2010/01/29 | 13:19:31 | PS/2 POSKeyboard Library              |
| POSESC32.dll  | 1.0.0.6       | 2009/10/06 | 13:52:09 | USB POSKeyboard Library               |
| UsbKbMgr.exe  | 1.0.0.8       | 2009/05/18 | 08:20:41 | USB Msr & Keylock Control Program     |
| zzwdt.sys     | 4.0.1381.1    | 2008/02/28 | 15:29:54 | Watchdog Timer Driver                 |
| liuwd111.h    | -             | 2009/07/22 | 16:02:22 | WD-111 Library header file            |
| WD111.lib     | -             | 2009/07/27 | 17:34:16 | WD-111 Library lib file               |
| WD111.dll     | -             | 2009/07/27 | 17:34:16 | WD-111 Library                        |
| Logmgr.h      | -             | 2001/10/13 | 03:10:18 | Log manager library header file       |
| LogMgr.lib    | -             | 2004/06/26 | 15:06:54 | Log manager library lib file          |

### OPOS Driver (for Windows XP, WEPOS, POSReady 2009/ 7, Vista, 7)

| Filename    | Version    | Date       | Time     |                                  |
|-------------|------------|------------|----------|----------------------------------|
| DRW.INF     | -          | 2008/02/14 | 10:44:22 | CashDrawer Driver Setup INF file |
| DRVDRW.sys  | 4.0.1381.1 | 2008/03/22 | 11:56:28 | CashDrawer Driver                |
| drv7seg.inf | -          | 2008/11/13 | 13:11:02 | 7SEG LED Driver Setup INF file   |
| DRV7SEG.sys | 1.0.0.0    | 2008/11/13 | 13:12:30 | 7SEG LED Driver                  |
| 7SegDll.dll | 1.0.0.0    | 2008/10/31 | 10:58:00 | 7SEG LED Driver Library          |
| 7SegDll.dll | 1.0.0.0    | 2008/10/31 | 10:58:00 | 7SEG LED Driver Library          |

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|               |               |            |          |                                       |
|---------------|---------------|------------|----------|---------------------------------------|
| 7SegDll.lib   | -             | 2008/10/31 | 10:58:00 | 7SEG LED Driver lib file              |
| sensor.inf    | -             | 2008/10/03 | 17:40:36 | Sensor Driver Setup INF file          |
| DRVSENSOR.sys | 2.0.0.1       | 2009/04/08 | 10:28:26 | Sensor Driver                         |
| SENSOR.dll    | 1.0.0.0       | 2008/11/27 | 22:04:18 | Sensor Driver Library                 |
| SENSOR.lib    | -             | 2008/11/27 | 22:04:18 | Sensor Driver lib file                |
| SENSOR.h      | -             | 2008/11/10 | 16:26:58 | Sensor Driver header file             |
| StrSensor.h   | -             | 2008/09/18 | 10:01:50 | Sensor Driver header file             |
| install.exe   | -             | 2001/05/22 | 15:05:12 | Driver's Installer                    |
| KBFInst.exe   | 5.1.2600.1106 | 2007/07/12 | 22:39:34 | Keyboard Filter Driver's Installer    |
| KBFInst.inf   | -             | 2007/07/12 | 21:20:12 | Keyboard Filter Driver Setup INF file |
| kbfilter.sys  | 5.0.1636.1    | 2009/01/14 | 11:33:26 | Keyboard Filter Driver                |
| KeyMonHk.dll  | 2.0.0.2       | 2003/09/01 | 17:17:10 | Keyboard Hook Library                 |
| KeyMonHk.lib  | -             | 2007/03/31 | 14:26:06 | Keyboard Hook lib file                |
| KeyMonHk.h    | -             | 2007/03/31 | 14:26:06 | Keyboard Hook header file             |
| mkmgr.exe     | 1.0.0.0       | 2007/04/02 | 14:05:20 | Msr & Keylock Control Program         |
| MSCOMCTL.OCX  | 6.1.95.45     | 2002/12/20 | 14:02:44 | Runtime Library                       |
| Posesc32.dll  | 2.0.0.4       | 2010/01/29 | 13:19:31 | Keyboard Library                      |
| POSESC32.dll  | 1.0.0.6       | 2009/10/06 | 13:52:09 | USB POSKeyboard Library               |
| UsbKbMgr.exe  | 1.0.0.8       | 2009/05/18 | 08:20:41 | USB Msr & Keylock Control Program     |
| liuwd111.h    | -             | 2009/07/22 | 16:02:22 | WD-111 Library header file            |
| WD111.lib     | -             | 2009/07/27 | 17:34:16 | WD-111 Library lib file               |
| WD111.dll     | -             | 2009/07/27 | 17:34:16 | WD-111 Library                        |
| zzwdt.sys     | 4.0.1381.1    | 2008/02/28 | 15:29:54 | Watchdog Timer Driver                 |

### USB driver

| Filename      | Version | Date       | Time     |                                        |
|---------------|---------|------------|----------|----------------------------------------|
| Tecusbd.sys   | 1.0.0.7 | 2004/11/25 | 20:45:00 | Toshiba TEC general-purpose USB driver |
| TecUSBDEx.INF | -       | 2009/09/02 | 14:57:28 | USB driver Setup INF file              |

## **Cautions**

**NOTE:** For restoring the divided file, save the following file in the same place of HDD.

ex) When a version is V001.XXX

ST-B20V1XXX.000

ST-B20V1XXX.001

ST-B20V1XXX.002

ST-B20V1XXX.003

ST-B20V1XXX.004

ST-B20V1XXX.005

ST-B20V1XXX.006

ST-B20V1XXX.007

ST-B20V1XXX.008

ST-B20V1XXX.bat

Execution of “ST-B20V1XXX.bat” restores “ST-B20V1XXX.zip” to the same place as “ST-B20V1XXX.bat”.

**NOTE:** Silent Installation is supported for only Windows XP and WEPOS.

**NOTE:** Please see “OPOSControlPanelCaution.pdf” when using OPOS Control Panel

**NOTE:** Wake-On-LAN is not supported in Windows7 and PosReady 7