VP-25Wx_ce50 OS Update History

Release Date: 12/17/2013

Key Features:

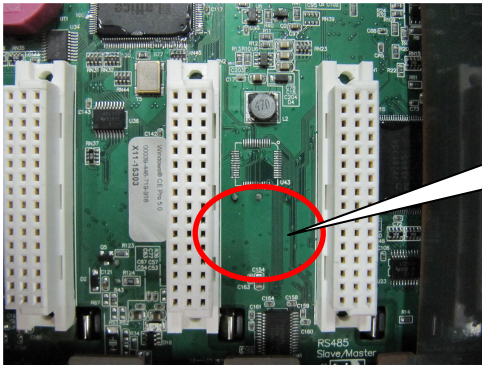| Features	Supported	Description
OS Language	Yes	**VP-25Wx-EN**: Multi-language including: - English - German - Russian - French - Spanish - Italian - Korean **VP-25Wx-SC**: Simplified Chinese **VP-25Wx-TC**: Traditional Chinese
.NET Compact Framework 2.0 .NET Compact Framework 3.5	Yes	V2.0.7045 for Visual Studio .Net 2005/2008 V3.5.7283.0 for Visual Studio .Net 2008
SQL CE 3.5	Yes	SQL CE 3.5 (3.5.5386.0)
FTP Server	Yes	
HTTP Server	Yes	
Telnet	Yes	
Printer	Yes (PCL 6)	Support for HP Laser Jet printers with USB and Ethernet interfaces
Display Resolution	Yes	640 * 480
Multiport Serial Communication Module The maximum number of ports that can be used is 12. (i.e., 3 slots * 4 ports per module = max. of 12 ports)	Yes	Supported modules: I-8112iW (RS-232 *2) I-8114W (RS-232 *4) I-8114iW (RS-232 *4) I-8142iW (RS-485 *2) I-8144iW (RS-485 *4) I-8212W, I-8213W (GPS) (Industrial Tri-band 2G module) I-8212W-3GWA, I-8213W-3GWA (GPS) (Industrial Tri-band 3G module)

Software and Hardware Compatibility

Software		Hardware Version			
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**	**PCB V2.30**
V.2.4.3.0 [12/17/2013]	V.1.2.1.0	Yes	Yes	Yes	Yes
V.2.4.2.0 [07/08/2013]	V.1.2.1.0	Yes	Yes	Yes	Yes
V.2.4.1.0 [11/21/2012]	V.1.2.0.0	Yes	Yes	Yes	Yes
V.2.4.0.0 [11/21/2012]	V.1.2.0.0	Yes	Yes	Yes	Yes
V.2.3.0.0 [09/13/2012]	V.1.2.0.0	Yes	Yes	Yes	(* Note 1)
V.2.2.0.0 [04/06/2012]	V.1.2.0.0	Yes	Yes	Yes	Yes
V.2.1.0.0 [05/25/2011]	V.1.1.0.3	Yes	(* Note 2)	Yes	-
V.2.0.0.2 [11/18/2010]	V.1.1.0.3	Yes	Yes	-	-
V.2.0.0.1 [09/15/2010]	V.1.1.0.3	Yes	Yes	-	-
V.2.0.0.0 [06/30/2010]	V.1.1.0.3	Yes	Yes	-	-
V.1.1.0.1 [04/12/2010]	V.1.1.0.3	Yes	-	-	-
V.1.1.0.0 [12/01/2009]	V.1.0.1.1	Yes	-	-	-

Note 1: OS V.2.3.0.0 is not able to operate the System_disk correctly for hardware v2.30.
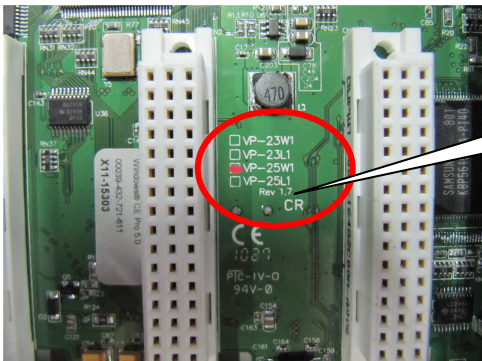
Note 2: OS V.2.1.0.0 works well on hardware v1.7 except that no support for touch panels and audio is provided.

Note 3: The hardware version number can be found on the PCB, as per the description below:

Determining the hardware version

No revision mark for PCB v1.5

Revision mark for PCB v1.7 and later

Table of Contents

VP–25Wx OS V.2.4.3.0 Release Notes [12/17/2013]

Abstract

This release adds new supports for non-Windows XP-style GWES that allows the user to change the button color, DHCP allocator to assign the DHCP IP address in LAN, and PPTP/L2TP protocols to connect to a VPN as a dial-up client. It also fixes issues of where the micro SD card was sometimes not mounted after booting.

New Features

- Users now can change the GWES to non-Windows XP style skin and then change the button color.
- Adds support for DHCP allocator to assign the DHCP IP address in LAN.
- Adds support for PPTP/L2TP dial-up access, which can be used to connect to a VPN.

Improvements and Bug Fixes

- Modified the driver for the micro SD card to solve a problem where the micro SD card was sometimes was not mounted after booting.

Eboot Version

- No updates   (V.1.2.1.0, 07/09/2013)

Software and Hardware Compatibility

Software		Hardware			
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**	**PCB V2.30**
V.2.4.3.0	V.1.2.1.0	Yes	Yes	Yes	Yes

ViewPAC Utility and WinPAC SDK

- PACSDK DLL   Version 4.2.3.8   (Released on 10/30/2013)
- ViewPAC Utility   Version 2.1.0.6   (Released on 11/30/2013)

VP–25Wx OS V.2.4.2.0 Release Notes [07/08/2013]

This release fixed a bug that the CPU usage would rise to 100% after a user inserted a USB disk and then removed it over eight times. The new function "Schmitt trigger" has been added to improve the Ethernet connection stability after boot-up. The Eboot version 1.2.1.0 is new release to enable "Schmitt trigger" for the Ethernet connection stability, too.

Improvements and Bug Fixes

- Fixed an issue in the USB driver that the CPU usage rises to 100% when the user inserted and then removed a USB Disk over 8 times.
- Enabled the "Schmitt trigger" to improve the Ethernet driver and prevent problems of Ethernet connections after boot-up.

Eboot Version 1.2.1.0 [07/09/2013]

- Enabled the "Schmitt trigger" to improve the Ethernet driver and prevent a problem where the user could not use Eshell to update the OS image file.

Software and Hardware Compatibility

Software		Hardware			
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**	**PCB V2.30**
V.2.4.2.0	V.1.2.1.0	Yes	Yes	Yes	Yes

ViewPAC Utility and WinPAC SDK

- PACSDK DLL   Version 4.2.3.7   (Released on 05/30/2013)
- ViewPAC Utility   Version 2.1.0.5   (Released on 04/11/2013)

VP–25Wx OS V.2.4.1.0 Release Notes

This release updates the LCD backlight driver to allow the user to save the settings for the LCD backlight brightness. A bug in the COM0 driver for I/O slots has been fixed to prevent the OS from hanging while communicating with the I-87K module.

New Feature

- The LCD backlight driver has been updated to allow the user to save the settings for the LCD backlight brightness.

Bug Fixed

- A bug in the COM0 driver for I/O slots has been fixed to prevent the OS from hanging while communicating with the I-87K module.

Eboot Version

- No updates   (V.1.2.0.0, 03/28/2012)

Software and Hardware Compatibility

Software		Hardware			
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**	**PCB V2.30**
V.2.4.1.0	V.1.2.0.0	Yes	Yes	Yes	Yes

ViewPAC Utility and WinPAC SDK

- PACSDK DLL Version   4.2.3.5   (02/21/2013)
- ViewPAC Utility Version   2.1.0.5   (04/11/2013)

VP–25Wx OS V.2.4.0.0 Release Notes

This release added support for the hardware v2.30 and the I-8144iW hardware v2.20, and update the System_Disk driver.

Updates

- Added support for the VP-25Wx hardware v2.30.
- Updated driver to support the I-8144iW hardware v2.20.
- Updated the System_Disk driver.

Eboot Version

- No update   (V1.2.0.0, 03/28/2012)

Software and Hardware Compatibility

Software		Hardware			
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**	**PCB V2.30**
V.2.4.0.0	V.1.2.0.0	Yes	Yes	Yes	Yes

ViewPAC Utility and WinPAC SDK

- WinPAC SDK DLL Version: 4.2.2.5 (11/21/2012)
- ViewPAC Utility Version: 2.1.0.3 (11/21/2012)

VP–25Wx OS V.2.3.0.0 and Eboot V.1.2.0.0 Release Notes

This release improves the system_disk driver to resolve a problem that the system_disk couldn't be written caused by the VP-25Wx was rebooted while the system_disk was defragmenting in the background. In addition, improvements have also been made to increase the system_disk read/write speed and extend the life of the system_disk. An error with the system may crash caused by four COM ports were communicating simultaneously has been fixed. The problem where MMTIMER sometimes wouldn't work has also been solved. And supporting for PPPoE protocol has been added, it can be used to connect to an ADSL network.

New Features

- Added supporting for "PPPoE" dial-up, which can be used on an ADSL connection.

Improvements and Bug Fixes

- Resolved the problem that the system_disk would not be writable if the system was rebooted when the system_disk is defragmenting in the background.
- Increased the system_disk read/write speed and extended the life of the system_disk.
- Fixed an error with the multi-serial driver that sometimes caused the system crash when four COM ports were communicating at the same time.
- Fixed the problem where MMTIMER sometimes wouldn't work.

Eboot Version 1.2.0.0 [03/28/2012]

- No update

Software and Hardware Compatibility

Software		Hardware		
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.0**
V2.3.0.0 [09/13/2012]	V1.2.0.0	Yes	Yes	Yes

VP–25Wx OS V.2.2.0.0 and Eboot V.1.2.0.0 Release Notes

This release adds support for SMB File Server to share data through Ethernet, Korean User Interface and Input Method Editor, and NET Compact Framework 3.5; adds a function for hiding desktop icons and StudioSNMP-related files. It fixes an issue with FTP transfer on 2G and 3G modules (such as I-8212W, I-8212W-3GWA and I-8213W) may become disconnected, and fixes a bug of OS halted when saving the registry during the system_disk defragment procedure running; it also fixes an issue with loading the audio and touch screen drivers on hardware V1.7.

New Features

- Added support for SMB File Server for sharing data through Ethernet.
- Added support for the Korean User Interface and Input Method Editor.
- Added support for .NET Compact Framework 3.5.
- Added support for Indusoft StudioSNMP-related files.
- Added a function that allows desktop icons to be hidden.
- Added support for the MXIC MX28GL256F Flash chip.
- Added support for the PXA270M CPU. (HW V2.20 later)

Improvements and Bug Fixes

- Fixed an error that occurred when saving the registry during the System_disk defragment procedure, the OS would be halted.
- Resolved an issue that caused a start up program set in the Auto Execution tab of the ViewPAC Utility to fail after rebooting, which occurred because the relevant driver for the program was loaded later than the program.
- Resolved the error that caused the connection to be lost when using 3G mode (e.g., I-8212W, I-8212W-3GWA, and I-8213W) to transmit the FTP data.
- Updated the driver for the DM9000 to show connection speeds up to 100MB/second.
- Fixed the issue that caused an OS error when loading the touch screen and audio driver using hardware v1.7.

Eboot Version 1.2.0.0 [03/28/2012]

■ Added support for the MXIC MX28GL256F Flash chip.

Software and Hardware Compatibility

Software		Hardware		
OS	**Eboot**	**PCB V1.5**	**PCB V1.7**	**PCB V2.2**
V2.2.0.0 [04/06/2012]	V1.2.0.0	Yes	Yes	Yes

OS Version 2.1.0.0 [05/25/2011], Eboot V1.1.0.3

Abstract

The touch screen performance has been improved by reducing jitter and drift. Support for the AIC33 Audio chip and PM6000 touch chip has been added. The DM9000 driver has been amended to solve an issue where the device could not connect to certain brands of Hub.

New Features

- Support for the AIC33 Audio chip.
- Support for the PM6000 touch chip.

Bug Fixes

- The DM9000 driver has been amended to solve an issue where the device could not connect to certain brands of Hub.

Improvements:

- Improved the touch screen performance by reducing jitter and drift.

Modifications

- None.

Eboot Version 1.1.0.3 [09/13/2010]

Modifications

- None.

OS Version 2.0.0.2 [11/18/2010], Eboot V1.1.0.3

Abstract

Improve the performance of touch panel driver to reduce the number of futile clicks. Fix the touch driver bug that causes the touch screen lose efficacy. (While the problem happens, the OS and application still work and the USB mouse can be used. It must reboot the system to return to normal.). Fix the bug that causes the System time to reverse or move ahead one second after a reboot. Fix the bug that causes the "Run LED" to turn off after the OS starts.

New Features

- None.

Bug Fixes

- Fix the touch driver bug that causes the touch screen lose efficacy. (While the problem happens, the OS and application still work and the USB mouse can be used. It must reboot the system to return to normal.)
- Fixed the bug that causes the System time to reverse or ahead one second after a reboot.
- Fixed the bug that causes the "Run LED" to turn off after the OS starts.

Improvements:

- Improved the performance of touch panel driver to reduce the number of futile clicks.

Modifications

- None.

Eboot Version 1.1.0.3 [09/13/2010]

Modifications

- None.

OS Version 2.0.0.1 [09/15/2010], Eboot V1.1.0.3

Abstract

Fix a bug for OS Ver.2.0.0.0 that an "Important Notice" message should not show when the OS is downloaded in the old hardware with J3 flash chip. The "Import Notice" message should only show when the OS is downloaded in the new hardware with Samsung K8 70 ns flash chip.

New Features

- None.

Bug Fixes

- Cancel an "Import Notice" message. When the OS Ver.2.0.0.0 is downloaded to hardware with J3 flash chip, the "Import Notice" message will show when starting up. This is wrong and the OS Ver.2.0.0.1 fixes the bug. The message should only show in the hardware with Samsung K8 70 ns flash chip. See "What is Import Notice message?"

Improvements: None.

Modifications

- None.

Eboot Version 1.1.0.3 [09/13/2010]

- Support Samsung K8 70ns flash chip.

OS Version 2.0.0.0 [06/30/2010], Eboot V1.1.0.3

Abstract

This update supports Samsung K8 70ns flash chip and add a new function to support "Simple Network Time Protocol (SNTP)" to synchronize ViewPAC time with the network time server. Add a new tool to backup data for ViewPAC. Please refer Sec. Backup Utility V1000 release.

New Features

- Support samsung K8 70ns flash chip. As the Intel 95ns Flash chip has been phased out, the chip in the VP-25Wx has been replaced with a Samsung K8 70ns Flash chip. Thus the OS and Eboot sofeware for the VP-25Wx must be updated to version 2.0.0.0 (or later of the OS) and 1.1.0.1 (or later of the Eboot) to support both versions of the Flash chip. Also please note, older versions of the OS and Eboot software will not work on VP-25Wx modules that are equipped with the new Samsung K8 70ns Flash chips, so earlier version of the OS and Eboot software should not be installed as the module will not boot.
- Add support for a 64Bit OEMQueryPerformanceCounter.
- Support "Simple Network Time Protocol (SNTP)".
  - Synchronize ViewPAC time with Internet time server. The default setting is disabled.
  - ViewPAC Utility: supported by V2.0.1.6 or later

Eboot Version 1.1.0.3 [09/13/2010]
- Support Samsung K8 70ns flash chip.

OS Version 1.1.0.1 [04/12/2010], Eboot V1.0.1.3

Eboot Version 1.0.1.3 [05/18/2010]

Bug Fixes:

- Eboot version recorded in the EEPROM doesn't be equal to real Eboot version.

OS Version 1.1.0.1 [04/12/2010], Eboot V1.0.1.1

Abstract

This update fixes a major bug which OS hangs due to CPU over-loading when some programs (example: NAPOPC_CE and InduSoft) run over 8 hours; And adds two convenient functions:(1) the prefix name of multi-serial modules (I-811xW or I-814xW) can be "COMx" or "MSAx/MSBx". (2) The front side Function Key F1~F6 can be defined as the hotkey for specific application programs.

New Features

- The prefix name of multi-serial modules (I-811xW or I-814xW) can be "COMx" or "MSAx/MSBx".
  - ViewPAC utility: supported by V2.0.1.5 or later
  - The prefix name only be "MSAx/MSBx" in the previous OS versions
- Execute specific application programs respectively by Function key F1~F6
  - ViewPAC Utility: supported by V2.0.1.5 or later.
- Show the CPU frequency to system properties "Processor".

Bug Fixes

- OS hangs when some programs (example: NAPOPC_CE or InduSoft) run over 8 hours. In that case, the kernel bug (sleep function in source code of RTC.c) causes CPU over-loading and makes the OS out of work.
- Application program hangs after system booting if it uses any multi-serial modules (I-811xW or I-814xW). The bug is due to wrong boot sequence. The multi-serial driver should be loaded before executing auto-run programs set by WinPAC/ViewPAC utility. If an AP launches the multi-serial driver but the driver does not be loaded yet, it hangs. This update puts multi-serial driver to higher boot sequence.
- Sometimes application programs don't be executed automatically after system

booting. The bug is due to wrong boot sequence. The disk drivers (System_Disk and Micro_SD) should be loaded before executing auto-run programs set by the WinPAC/ViewPAC utility. If the disk drivers are not ready, OS will be not able to find the application programs and execute them. This update puts disk drivers to higher boot sequence.

Improvements: None.

Modifications

- Remove "Microsoft Windows CE v5.00 (.......)" message from the desktop.

Eboot Version 1.0.1.1 [11/20/2009]

- No update.

OS Version 1.1.0.0 [12/01/2009], Eboot V1.0.1.1

Abstract

This update provides multi-language OS, keyboard; improves USB host capability, LAN1 stability; and support one I-8135W to have one extra Ethernet port. Beside, the ViewPAC Utility is updated to V2.0.1.4.

New Features

- Multi-language user interface for OS with multi-language keyboard layout
  - Multi-language
    - English (V1100 and later)
    - German (V1100 and later)
    - Russian (V1100 and later)
    - French (V1100 and later)
    - Spanish (V1100 and later)
    - Italian (V1100 and later)
  - Simplified Chinese
    - Add Pocket IME〔简中输入法〕
  - Traditional Chinese
    - Add Input Method Editor-Pocket IME〔繁中輸入法〕
    - Add Phonetic Input (Bopomofo)〔注音輸入法〕
- Provide SNMP protocol
- Provide Power management to turn on/off the display
- Provide backlight adjustment by F6 key
  - ViewPAC Utility: supported by V2.0.1.4 and later.
- Provide activeSync program to synchronize the ViewPAC and a desktop PC through the COM3(RS-232).
- Provide 5 accounts and passwords for FTP/Telnet authentication
  ViewPAC utility: supported by V2.0.1.3 and later.
- Add 2 operation modes determined by the Rotary switch
  - Position 6 -> Run VCEP.exe automatically after booting to proceed the remote desktop management.
  - Position 5 -> Run DCON_CE.exe automatically after booting to proceed I-87K module configuration.
- Support one I-8135W module to have an extra Ethernet port
  ViewPAC Utility: supported by V2.0.1.3 and later.

Bug Fixes

- The ViewPAC Utility shows wrong month information of the OS image.
- Fix a bug that the DeactivateDevice and ActivateDevice APIs can not work to loaded and unload OHCI driver by applications.

Improvements

- Improve the USB compatibility
  Some USB hubs cannot be detected by ViewPAC in the booting phase. A re-plugging is needed to correct it.
- Improve the LAN1 stability
  LAN1 sometimes cannot be activated in the booting phase. A re-plugging is needed to correct it.
- Add VBScript 5.6 components: MsgBox and InputBox
- Improve microSD/microSDHC driver read/write performance

Modifications

- Modify the priority of microSD
  - Controller IST priority 0x64 change to 0x78
  - Card Detect IST priority 0x65 change to 0x79
- Modify the priority of touch panel from 0x6D to 0x6E
- Set the Hardware Watchdog to monitor the system status.
- Change kypad.dll to kbdmouse.dll.
- Move dll files related to SQL CE3.5 from the Windows location to System_Disk
- Set Internet Explorer default mode to UTF-8
- Change IRQ number of Backplane 0x03 to 0x0A
- Modify the windows font size from 10 to 14 points

Eboot Version 1.0.1.1 [11/20/2009]

Bug Fixes:

- In debug mode, the MAC address shown on touch penal is wrong.
- The month information of the Eboot that shown on the touch panel while booting is wrong.

OS Version 1.0.0.7 [06/20/2009], Eboot V1.0.0.4

First Release

Eboot Version 1.0.0.4 [06/20/2009]

First Release