

1. Product Information:

The AX88772A/AX88772 Controller is a single chip USB 2.0 to Fast Ethernet Controller. This is an AX88772A/AX88772 NDIS driver for WinCE 5.0 embedded system. It has been qualified under WinCE 5.0 CETK on an Intel Pentium 4 2.8GHz system with a NEC D720100AGM USB 2.0 PCI Host adapter running WinCE 5.0 CEPC X86 Platform Image.

Note: The default USB 2.0 HCD driver (EHCI) of Windows CE 5.0 Platform Builder has a USB 2.0 device Hot-Swap BUG. The EHCI driver should be updated to fix this bug. Please refer to Section 6 "Update WinCE 5.0 USB 2.0 HCD Driver (EHCI.DLL)" for the detail information.

2. Files Descriptions:

The AX88772A/AX88772 WinCE driver package includes the files as described below,

RELEASE.PDF AX88772.DLL EHCI.DLL PROJECT.REG PROJECT.BIB CETK_LOG\ 1C_TEST.LOG CETK_LOG\ 2C_TEST.LOG CETK_LOG\ 1C_TEST.TXT CETK_LOG\ 2C_TEST.TXT This file Driver file Updated EHCI Driver file Sample REG file Sample BIB file CETK One Card Test log file CETK Two Card Test log file CETK One Card Test readme file CETK Two Card Test readme file



3. Revision History:

Revision	Author	Date	Description
v1.0.14.0	Alex	2011/12/06	1. Fix the plug/un-plug issue.
			2. Fix the DHCP issue on the Mentor Ranger.
			3. Fix an issue where the driver stays looping sometimes
			when putting the system into suspend mode.
v1.0.13.0	Kater	2011/08/18	1. Fix plug/unplug issue when device initialize.
v1.0.12.0	Kater	2011/05/28	1. Using the critical section to protect the usb detach and
			usb attach.
			2. In addition to srom read/write, no longer use critical
			section to protect other vendor command operations.
			3. Fix multi-adapter suspend/resume issue.
			4. Fix issue of ping command with specific packet size.
v1.0.11.0	Francis	2010/05/26	1. In some platforms, send a bulk request in a bulk
			complete routine will cause some problems. Set a
			timer in the bulk complete routine to send a bulk
			request.
			2. Change the PHY power up process delay time from
			60ms to 600ms.
			3. Fix the second adapter driver fail issue if multi
			adapters plug in multi host controllers.
v1.0.10.0	Francis	2009/12/17	1. Adjust the Bulk request failed retry delay time from
			0ms to 100ms to avoid taking up CPU resources and
			crash issue when shutdown and restart.
v1.0.9.0	Francis	2009/12/11	1. Fix the vendor command failed issue when the PHY
			ON/OFF procedure and the EEPROM read/write
			procedure run simultaneously.
			2. Don't call any USB function in the halt routine.
v1.0.8.0	Francis	2009/11/06	1. Fix the AX88772 PHY ON/OFF procedure.
v1.0.7.0	Francis	2009/10/06	1. Improve the throughput.
			2. Used EEPROM offset 0x17 to select the power
			saving mode.
v1.0.6.0	Mark	2009/07/21	1. Support multi-adapters.
v1.0.5.0	Mark	2009/06/26	1. Cover the DriverInitialize is called twice issue on
			some platform.
v1.0.4.0	Mark	2009/05/14	1. Add the version string in DriverInitialize
			2. Take out the QueryPerformanceFrequency function
			call on normal operation.
v1.0.3.0	Mark	2009/04/29	1. Add new algorithm for power saving.
			2. Fix compatibility issue with some switch
v1.0.2.0	Mark	2009/03/13	1. Use software_reset_register to power down
			and power up PHY.
v1.0.1.1	Mark	2009/02/26	1. Add PHY ON/OFF procedure
			2. Fix issue of ping command with big size
v1.0.1.0	Mark	2009/02/12	1. Improve the performance on USB1.1 interface
v1.0.0.9	Mark	2009/02/09	1. Fix EHCI hot-plug issue



v1.0.0.8	Francis	2009/01/06	1. Fix SROM size error when program EEPROM.
v1.0.0.7	Francis	2008/11/14	1. Change interrupt in interval from 1s to 125ms.
			2 .Register VID/PID 0B95_7720 and 0B95_772A instead
			of only VID 0B95 in USBInstallDriver routine.
			3. Modify EEPROM write function, add a write delay
			time parameter, and add
			OID_SET_EEPROM_DELAY_TIME to let SROM
			tool to set this parameter. Default value is 5ms.
			4. Turn on AX88772A backpressure function when
			enable flow control.
v1.0.0.6	Francis	2007/04/02	1. Support AX88772A chip. (Add wakeup frame and VLAN)
			2. Modify to fix EHCI resume issue
			3. Change "Prefix" parameter from "NDS" to "ASX" in "project.reg" file
v1.0.0.5	Francis	2006/10/02	1. Add the "OID_ACCESS_EEPROM" OID to support SROM Programming Tool.
v1.0.0.4	Allan Chou	2006/05/18	1. Modify to fix the CETK test failure issue when the
			"NetworkAddress" parameter was set.
v1.0.0.3	Allan Chou	2006/01/23	1. Modify to fix RX hang-up issue under AU1200
			platform for a long-time media stream test.
v1.0.0.2	Allan Chou	2005/11/10	1. Modify to fix TX hang-up issue under MainStone II
			platform.
v1.0.0.1	Allan Chou	2005/09/14	1. Modify to support external MII PHY.
v1.0.0.0	Allan Chou	2005/07/14	1. New release for WinCE 5.0.



4. Driver Installation:

1. Add below AX88772A/AX88772 registry values into the (_WINCEROOT)\PUBLIC \CEBASE\OAK\FILES\PROJECT.REG file.

; @CESYSGEN IF BSP_NIC_AX88772 ;IF BSP_NIC_AX88772 [HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\2965_30496\Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\2965_30506\Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Drivers\USB\ClientDrivers\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Comm\AX88772] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"
[HKEY_LOCAL_MACHINE\Comm\AX88772\Linkage] "Route"=multi_sz:"AX887721"
[HKEY_LOCAL_MACHINE\Comm\AX887721] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"
<pre>[HKEY_LOCAL_MACHINE\Comm\AX887721\Parms] "BusNumber"=dword:0 "BusType"=dword:1 ; "NetworkAddress"="02-12-34-56-78-9a" ;Define an override MAC address 02-12-34-56-78-9a</pre>
<pre>; AX88772 Driver Parameters: ; "ConnectionType" ==> 0 = "AutoSense"; 2 = "10BaseT Half_Duplex"; 3 = "10BaseT Full_Duplex"</pre>
;=====================================
;=====================================



"WakeUpFrameType"=dword:3 "VlanEnable"=dword:0 "VlanId"=dword:0	; 1 = "Ping"; 2 = "ARP"; 3 = "All"; ; 0 = "Disable"; 1 = "Enable"; ; 0 - 4095
<pre>[HKEY_LOCAL_MACHINE\Comm\AX887721\ ; "EnableDHCP"=dword:0 ; "IpAddress"="xxx.xxx.aaa" ; "Subnetmask"="255.255.255.0" ; "DefaultGateway"="xxx.xxx.bbb" ; "DNS"="xxx.xxx.ccc"</pre>	 Parms\TcpIp] ;Disable DHCP function ;Define your IP address (xxx.xxx.aaa) ;Define Submask IP address ;Define Gateway IP address ;Define DNS server IP address
"AutoCfg"=dword:1 "EnableDHCP"=dword:1 "UseZeroBroadcast"=dword:0 ;ENDIF BSP_NIC_AX88772 ; @CESYSGEN ENDIF BSP_NIC_AX88772	;Enable DHCP function ;Use zero for broadcast address?

2. Add below AX88772A/AX88772 driver file path and attributes into the \$(_WINCEROOT) \PUBLIC\CEBASE\OAK\FILES\PROJECT.BIB file.

MODULES ; Name	Path		Memory Type
; ax88772.dll	\$(_FLATRELEA	ASEDIR)\ax88772.dll	NK SH
FILES ; Name	Path	Memory Type	
;			



3. Install new platform for your project



Note: Please check if the PROJECT.REG file in \$(_WINCEROOT)\PBWorkspaces \<YourProjectName>\WINCE500\CEPC_x86\OAK\files subdirectory is included all contents modified in Step 1.



- 4. Copy AX88772.DLL and **EHCI.DLL** files into the \$(_WINCEROOT)\PBWorkspaces \<YourProjectName>\WINCE500\CEPC_x86\OAK\files subdirectory.
- 5. Choose "Build and Sysgen" from the Build OS menu to build the platform image file (NK.BIN).



- 6. Startup your CE/PC to get the connection with the Platform Builder.
 - 6-1. Install a supported Ethernet adapter (like NE2000 ISA card or RTL8139 PCI card) for Ethernet Boot Loader (eboot.bin) and a ASIX AX88772A/AX88772 USB to Fast Ethernet adapter for tested WinCE driver.

 Note 1: Please set a proper IRQ, IOBASE and IP address in the AUTOEXEC.BAT file of the CE/PC Boot Disk for the Ethernet Boot Loader adapter.
 (For PCI card: set to IRQ=0, IOBASE =0 for auto-detection. For ISA card: set to the same IRQ, IOBASE as the H/W setting.)

- 6-2. Insert the CE/PC Boot Disk into your CE/PC.
- 6-3. Power ON the CE/PC.
- 6-4. Select "Boot CE/PC (ether via eboot.bin with /L:800x600x16)" from the boot menu.



- 6-5. Choose "Connectivity Options" from the Target menu to configure an Ethernet connection for downloading and debugging the image file.
- 6-6. Select "Ethernet" in the drop-down menu titled "Download".
- 6-7. Select "Ethernet" in the drop-down menu titled "Transport".
- 6-8. Click "Settings" button associated with the "Download" option. This will open a new dialog to wait for the available CEPC devices.
- 6-9. Select "KbStub" in the drop-down menu titled "Debugger".

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	Image: Second	Device Configuration	Iarget Device:
Chou1 Catalog items Societation Certains Societation Societation	Run Programs Alt+Shift+R CE Debug Zones E CE Tgrget Control Ctrl+Alt+Shift+A	Device Boot Name: CEPC61906 IP Address: 192.9.20.180 Bootboader: 3.4	Download:
	CE Processes CE Threads CE Modules and Symbols CE Exceptions	Active Devices:	Tgansport Ethemet Settings (CEPC61906)
Coard PC Card PC Bus Printer Devices	Connectivity OptionsCtrl+Shift+C Debug Message Options Rejease Directory Modules	Waiting for CE/PC device	Debugger: KdStub
Serial Sorage Devices USB Host	Support	QK <u>Cancel</u>	Apply Close Help
7 OSDesignView 🖗 Parame	terView 🖹 FileView		

6-10. Choose "Attach Device" from the Target menu to start downloading the Platform Image file onto the CE/PC.



- 6-11. After the image file is downloaded successfully, the CE/PC will be booted up to WinCE operation system by running the Platform Image file.
- 6-12. Run Ping command to verify the network connection function.



5. Modify Driver Parameters:

1. Modify the AX88772A/AX88772 registry values from the $(_WINCEROOT)\PBWorkspaces \<<YourProjectName>\RelDir\CEPC_x86_Release\PROJECT.REG file.$

; @CESYSGEN IF BSP_NIC_AX88772 ;IF BSP_NIC_AX88772
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\2965_30496\Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\2965_30506\Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Drivers\USB\ClientDrivers\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"
[HKEY_LOCAL_MACHINE\Comm\AX88772] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"
[HKEY_LOCAL_MACHINE\Comm\AX88772\Linkage] "Route"=multi_sz:"AX887721"
[HKEY_LOCAL_MACHINE\Comm\AX887721] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"
[HKEY_LOCAL_MACHINE\Comm\AX887721\Parms] "BusNumber"=dword:0
"BusType"=dword:1 ; "NetworkAddress"="02-12-34-56-78-9a" ;Define an override MAC address 02-12-34-56-78-9a
;=====================================
; "ConnectionType" ==> 0 = "AutoSense"; 2 = "10BaseT Half_Duplex"; 3 = "10BaseT Full_Duplex"
; 8 = "100BaseTx Half_Duplex"; 9 = "100BaseTx Full_Duplex" ; "ElowControl"> 0 - "Disable": 1 - "TX PAUSE": 2 - "BX PAUSE": 3 - "Enable"
; "wakeup" ==> $0 =$ "Disable"; $2 =$ "Link-up"; $4 =$ "Magic Packet"; $8 =$ "Wakeup Frame"
; $6 = "Link-up" \& "Magic Packet";$
; 10 = "Link-up" & "Wakeup Frame"; 12 = "Magic Packet" & "Wakeun Frame";
; $14 = "All"$
; ps: "Wakeup Frame" is only for AX88772A chip
,"ConnectionType"=dword:0
"FlowControl"=dword:3
wakeup"=dword:0
;the follow only for AX88772A chip
;======================================



	"WakeUpFrameType"=dword:3 "VlanEnable"=dword:0 "VlanId"=dword:0	; 1 = "Ping"; 2 = "ARP"; 3 = "All"; ; 0 = "Disable"; 1 = "Enable"; ; 0 - 4095
[HKE ; ; ; ;	EY_LOCAL_MACHINE\Comm\AX887721\ "EnableDHCP"=dword:0 "IpAddress"="xxx.xxx.aaa" "Subnetmask"="255.255.255.0" "DefaultGateway"="xxx.xxx.bbb" "DNS"="xxx.xxx.ccc"	Parms\TcpIp] ;Disable DHCP function ;Define your IP address (xxx.xxx.aaa) ;Define Submask IP address ;Define Gateway IP address ;Define DNS server IP address
;END ; @C	"AutoCfg"=dword:1 "EnableDHCP"=dword:1 "UseZeroBroadcast"=dword:0 DIF BSP_NIC_AX88772 ESYSGEN ENDIF BSP_NIC_AX88772	;Enable DHCP function ;Use zero for broadcast address?

2. Choose "Make Run-Time Image" from the Build OS menu to build a new platform image (NK.BIN) to take effect the new settings.



6. Update WinCE 5.0 USB 2.0 HCD Driver (EHCI.DLL)

The default USB 2.0 HCD driver (EHCI) of Windows CE 5.0 Platform Builder couldn't handle the USB 2.0 device Hot-Swap event well while there is a pending transfer. It will cause the USB 2.0 device driver couldn't be loaded successfully after hot-swapping the device for a couple of times because the physical memory (TD buffers) resources are not released by the USB 2.0 HCD driver when the USB 2.0 device is unplugged while there is a pending transfer. This bug has been confirmed by Microsoft and will be fixed in the future version of Windows CE 5.0.

Solution:

- 1. ASIX provides an updated EHCI.DLL file for standard X86 CE/PC platform.
 - 1-1. Copy the updated **EHCI.DLL** file into the \$(_WINCEROOT)\PBWorkspaces \<YourProjectName>\RelDir\CEPC_x86_Release subdirectory.
 - 1-2. Run "Make Run-Time Image" to create the NK.BIN image file.
- 2. Customer manually modifies the **cpipe.cpp** file in the \$(_WINCEROOT)\PUBLIC \COMMON\OAK\DRIVERS\USB\HCD\USB20\EHCI subdirectory and rebuild a new EHCI.DLL driver for their specific WinCE BSP platform.
 - 2-1. Modify the **cpipe.cpp** file in the \$(_WINCEROOT)\PUBLIC\COMMON \OAK\DRIVERS\USB\HCD\USB20\EHCI subdirectory to remove below two statements.

```
<<< In the cpipe.cpp file >>>
void CQueuedPipe::AbortQueue( void )
{
  ASSERT( m_pUnQueuedTransfer == NULL);
  if (m_pQueuedTransfer) {
    RemoveQHeadFromQueue();
//
     m pQueuedTransfer;
                                               //Remove this line
    m_pQueuedTransfer ->AbortTransfer();
    GetQHead()->InvalidNextTD();
    m pCEhcd->AsyncBell();// Ask HC update internal structure.
    Sleep(2);// this sleep is for Interrupt Pipe;
    m_pQueuedTransfer->DoneTransfer();
     m_pQueuedTransfer = NULL;
                                               //Remove this line
    delete m_pQueuedTransfer;
    m_pQueuedTransfer = NULL;
    InsertQHeadToQueue() ;
  ASSERT(m_pQueuedTransfer == NULL);
  . . . .
```



2-2. Rebuild EHCI driver by select "Build and Sysgen Current Project" from **usb20** project menu. (See below picture)

EPC: x86_Debug		
	AX	
- Sancd ⊕ @ commo ⊕ @ ohc ⊕ @ ohcd2 ⊕ @ uhcd ⊕ @ uhcd	n Sta Home Gettin	
E Susb20	🛗 Build Current Project	
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● 圖 TOOLS (exclude ● ③ utils ● ③ sdk ● 圖 datasync ● 圖 dcom	Find in Files Ctrl+Shift+F Explore Show in Favorites Open Build <u>W</u> indow	
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- 2-3. Check if the EHCI.DLL file in the \$(_WINCEROOT)\PBWorkspaces \<YourProjectName>\RelDir\CEPC_x86_Release subdirectory is updated successfully or not.
- 2-4. Run "Make Run-Time Image" to create the NK.BIN image file.



7. How to configure WinCE 5.0 to run the SROM Programming Tool?

Before running AX88772A/AX88772 SROM Programming Tool (eeprom.exe), users need to add the "NDIS user mode I/O driver" in the WinCE 5.0 platform and then select "Build and Sysgen" from "Build OS" menu to rebuild the boot image file.





8. How to support AX88772A/AX88772 board with different Vendor ID/Product ID?

The AX88772A/AX88772 WinCE 5.0 driver supports AX88772A's default VID/PID (0B95h/772Ah) and AX88772's default VID/PID (0B95h/7720h). If the VID/PID of your AX88772A/AX88772 board are different from AX88772A's/AX88772's VID/PID, please follow below procedures to change the VID/PID registry setting of AX88772A/AX88772 WinCE 5.0 driver to support your AX88772A/AX88772 board.

8-1. Change the VID/PID setting from the Registry File

1. Add the following registry setting highlighted in below blue text in the \$(_WINCEROOT)\PBWorkspaces\<YourProjectName>\RelDir\CEPC_x86_Release\PROJE CT.REG file, and then change the VID/PID registry setting to meet the real VID/PID of your AX88772A/AX88772 board.

Note: The VID/PID registry values in the PROJECT.REG file are demonstrated in **"decimal"** numbers. For example, the "2965" means 0B95h in a hexadecimal number; meanwhile, the "30496" means 7720h in a hexadecimal number. The VID/PID registry setting "2965_30496" is for AX88772's default VID/PID (0B95h/7720h), and the VID/PID registry setting "2965_30506" is for AX88772A's default VID/PID (0B95h/772Ah).

; @CESYSGEN IF BSP_NIC_AX88772 ;IF BSP_NIC_AX88772 [HKEY_LOCAL_MACHINE\Drivers\USB\LoadClient "DLL"="AX88772.DLL" "Prefix"="ASX" Change to the VID/PII (The VID is C07Ah an	s\49274_41591\Default\Default\AX88772] O value of your AX88772A/AX88772 board. d the PID is A277h in this example.)		
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\ 2965_30496 \Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"			
[HKEY_LOCAL_MACHINE\Drivers\USB\LoadClients\2965_30506\Default\Default\AX88772] "DLL"="AX88772.DLL" "Prefix"="ASX"			
[HKEY_LOCAL_MACHINE\Drivers\USB\ClientDrivers\US	ers\AX88772]		
[HKEY_LOCAL_MACHINE\Comm\AX88772] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"			
[HKEY_LOCAL_MACHINE\Comm\AX88772\Linkag "Route"=multi_sz:"AX887721"	[e]		



[HKEY_LOCAL_MACHINE\Comm\AX887721] "DisplayName"="ASIX AX88772 USB 2.0 Fast Ethernet Driver" "Group"="NDIS" "ImagePath"="AX88772.dll"					
[HKEY_LOCAL_MACHINE\Comm\AX887721\ "BusNumber"=dword:0 "BusType"=dword:1 ; "NetworkAddress"="02-12-34-56-78-9a"	Parms] ;Define an override MAC address 02-12-34-56-78-9a				
<pre>;====================================</pre>					
;=====================================	;=====================================				
;the follow only for AX88772A chip					
;=====================================	; 1 = "Ping"; 2 = "ARP"; 3 = "All"; ; 0 = "Disable"; 1 = "Enable"; ; 0 - 4095				
<pre>[HKEY_LOCAL_MACHINE\Comm\AX887721\ ; "EnableDHCP"=dword:0 ; "IpAddress"="xxx.xxx.aaa" ; "Subnetmask"="255.255.255.0" ; "DefaultGateway"="xxx.xxx.bbb" ; "DNS"="xxx.xxx.ccc"</pre>	Parms\TcpIp] ;Disable DHCP function ;Define your IP address (xxx.xxx.aaa) ;Define Submask IP address ;Define Gateway IP address ;Define DNS server IP address				
"AutoCfg"=dword:1 "EnableDHCP"=dword:1 "UseZeroBroadcast"=dword:0	;Enable DHCP function ;Use zero for broadcast address?				
;ENDIF BSP_NIC_AX88772 ; @CESYSGEN ENDIF BSP_NIC_AX88772					

2. Choose **Build OS>Make Run-Time Image** to build a new platform image (NK.BIN) to take effect the new settings.



8-2. Check the modified VID/PID in WinCE Remote Registry Editor

After changed the VID/PID registry setting on your WinCE image file, you can follow the following procedures to double check if the new VID/PID setting was taken effect properly.

- 1. When the image has been built, click **Target>Attach Device** to download the Platform Image file onto the CE/PC.
- 2. After the image file is downloaded successfully, the CE/PC will be booted up to WinCE operation system by running the Platform Image file.
- 3. Establish the connection with CE/PC.
- 4. Click **Tools>Remote Registry** Editor. A pop-up window, **Select a Windows CE Device**, is shown on the screen. Select **Default Device** and click **OK**.



5. The **Default Device** icon will be shown up. Click **HKEY_LOCAL_MACHINE>Drivers>USB>LoadClients**. You will see your own VID/PID under **HKEY_LOCAL_MACHINE>Drivers>USB>LoadClients**.





8-3. Change the VID/PID setting from WinCE Remote Registry Editor manually

The following method illustrates how to change the VID/PID registry setting of AX88772A/AX88772 WinCE 5.0 driver from the WinCE Remote Registry Editor directly.

Note: This is a temporary configuration for testing purpose and will be reset to the default registry setting of WinCE 5.0 platform boot image file after rebooting the WinCE 5.0 platform. Please refer to Section 8-1 Change the VID/PID setting from the Registry File to modify the VID/PID registry setting of AX88772A/AX88772 WinCE 5.0 driver from the register file (PROJECT.REG) for official release purpose.

- 1. Follow Step #1 to Step #5 in Section 8-2 Check the modified VID/PID in WinCE Remote Registry Editor to establish the WinCE Remote Registry Editor connection with your WinCE 5.0 platform.
- 2. Modify the VID/PID registry under HKEY_LOCAL_MACHINE>Drivers>USB>LoadClients to meet the real VID/PID of your AX88772A/AX88772 board.

Example: The VID/PID of your AX88772A board is C07Ah/A277h respectively. You should adjust the following "2965_30506" registry value to "49274_41591". (Please refer to the WinCE registry VID/PID setting note in Section 8-1 for more details.)



3. Un-plug/re-plug your AX88772A board with VID (C07Ah)/PID (A277h) in this example. The AX88772A/AX88772 WinCE 5.0 driver should work fine with your AX88772A/AX88772 board now.



9. Known Errata:

None.





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