



Retail Platform Software Support



TeamPoS® 36xx **Windows XP Pro SP3 Controller Device Installation Primer**

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1. Overview

This document addresses the steps necessary to setup the *TeamPoS36xx* controller slice system devices using a fresh installation of Microsoft Windows XP SP3.

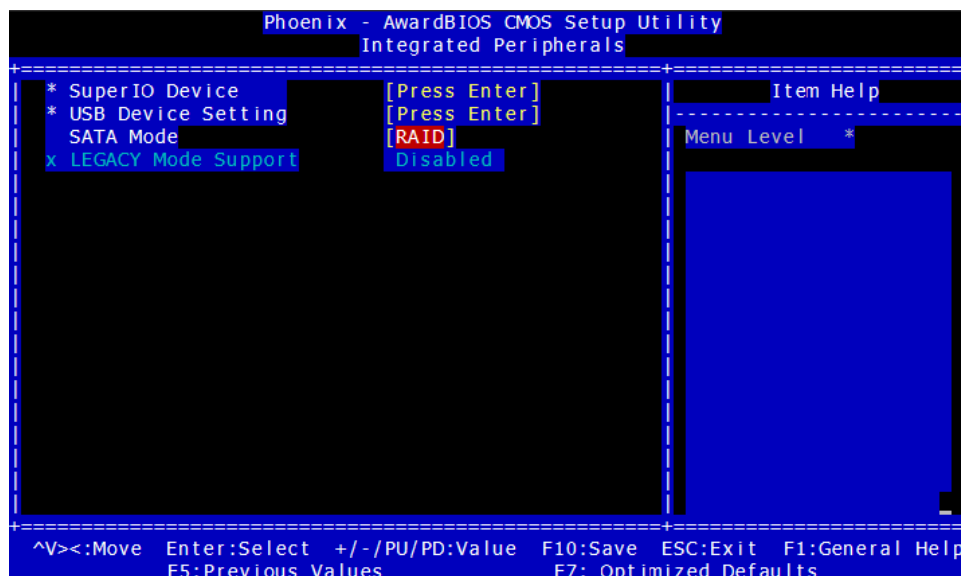
TeamPoS36xx utilizes the IntelQ35/ICH9D0 chipset, and Phoenix-Award BIOS v6.00PG. The specific BIOS version used in *TeamPoS36xx* the will be named in the form of “Yukon Rxx”, where xx is the BIOS release level.

2. *TeamPoS36xx* Hard Disk Subsystem

The *TeamPoS36xx* hard disk subsystem utilizes up to 2 3.5” Serial ATA (SATA) harddrives. The *TeamPoS36xx* also incorporates Intel® Matrix Storage Technology providing both Advanced Host Controller Interface (AHCI) and software RAID 0/1 capability for improved storage speed and data redundancy.

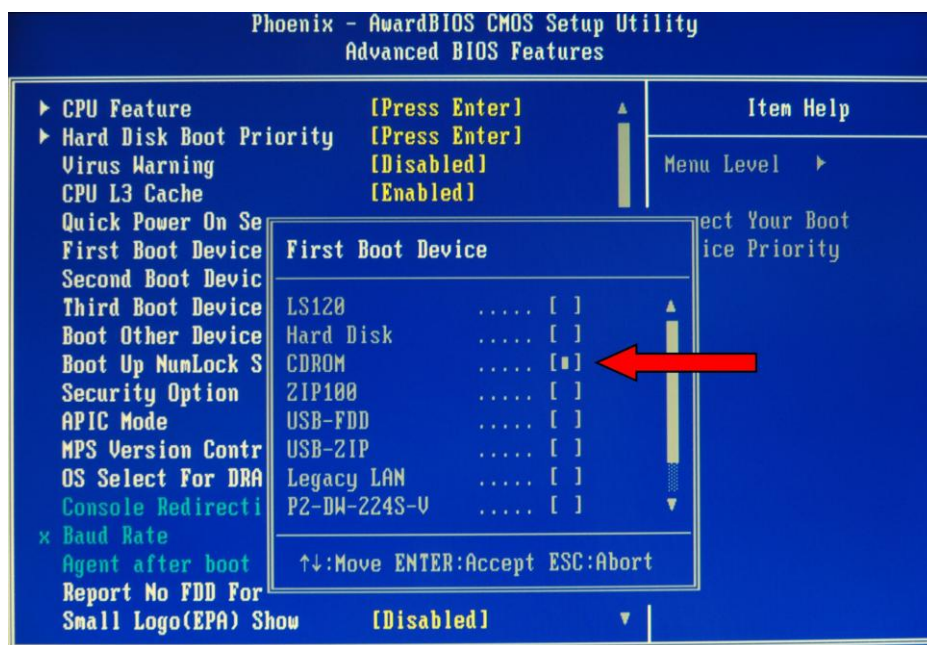
AHCI and RAID functionality are “*Enabled*” by BIOS setting. By default, *TeamPoS36xx* BIOS will have RAID “*Enabled*”, facilitating, but not requiring, RAID 0 or RAID1 array configurations.

This setting is accessed in the Integrated Peripherals\SATA Mode page in BIOS setup.

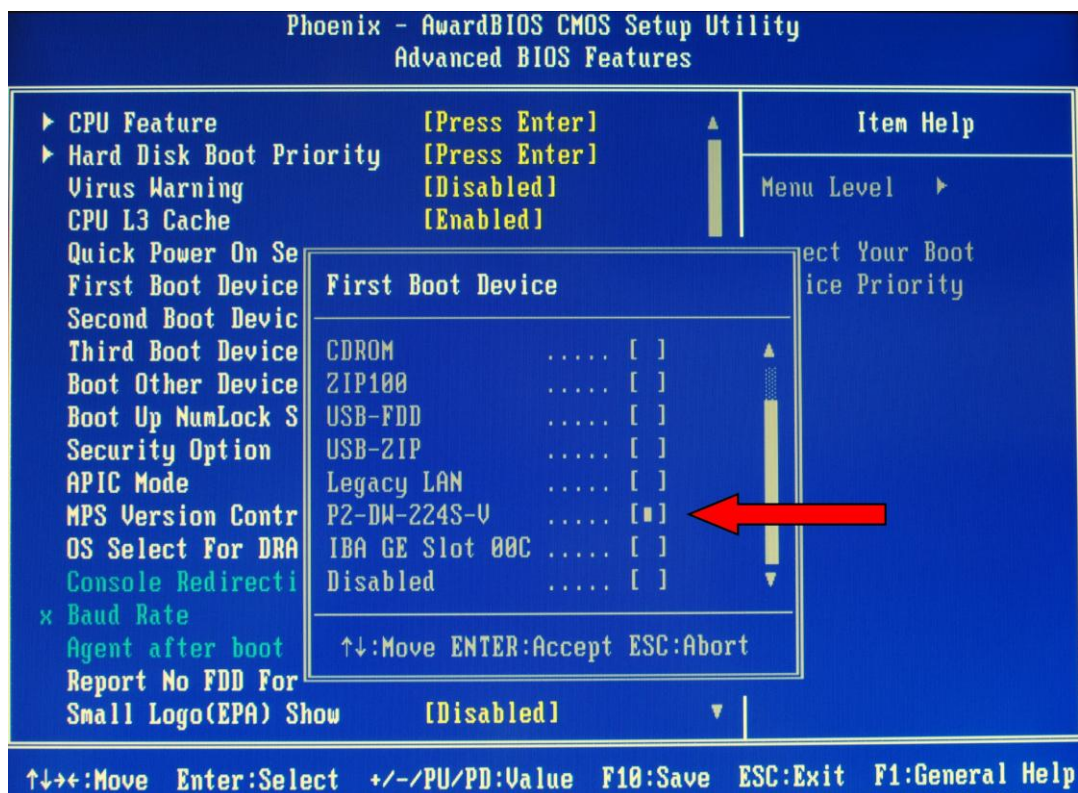


With the SATA Mode set to **RAID**, initial Microsoft Windows XP installations require the addition of mass storage device drivers during the install process using the F6 floppy method. Since *TeamPoS36xx* does not have an internal floppy drive, an external USB floppy drive must be used. Note that drives identified on Microsoft's XP hardware compatibility list should be used. Use of an external USB floppy drive not on the list may pose installation problems.

TeamPoS36xx uses a SATA CD R/W–DVD optical drive. When the SATA Mode is set to **IDE**, to select CDROM in the Boot Device Priority on the Advanced BIOS Features setup screen, the “**CDROM**” entry is used.

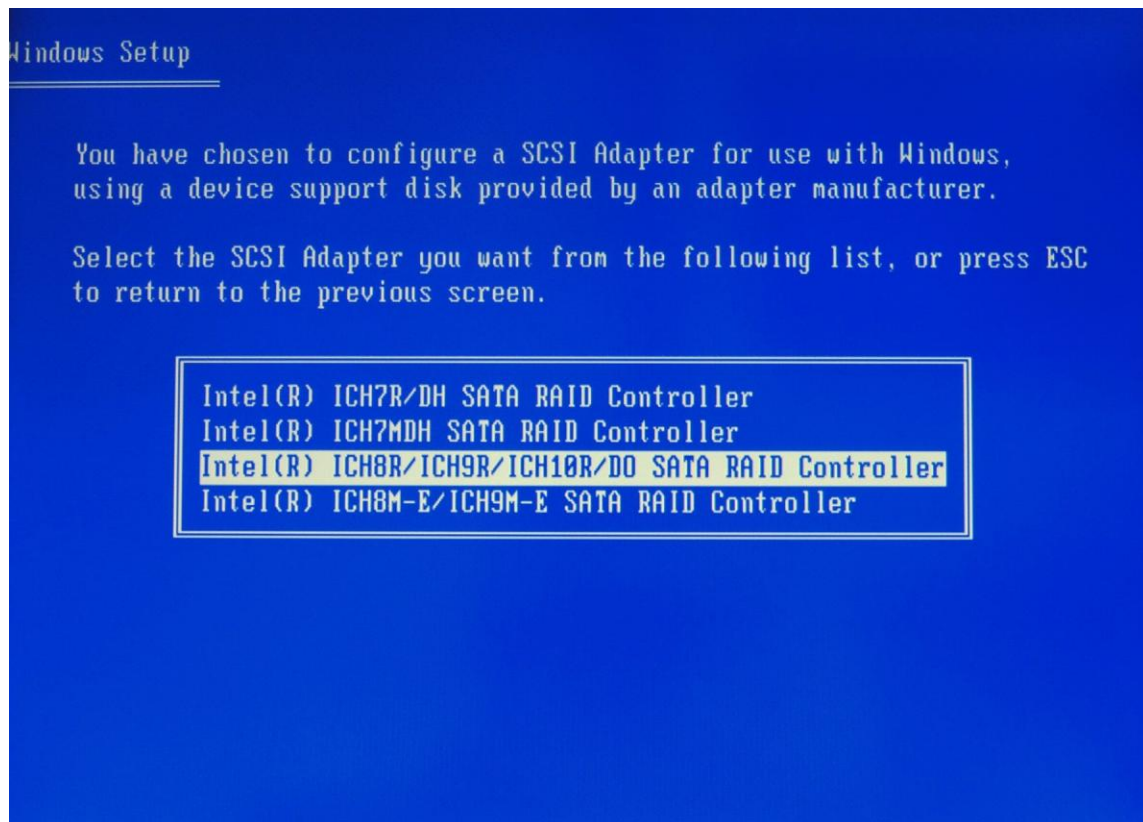


When SATA Mode is set to **RAID** (the BIOS Default) the CD-DVD drive is seen by BIOS as a SATA device, and it is referenced by the manufacturer identification information. The screen shot below shows the CD-DVD drive as “**P2-DW-224S-V**”. In SATA RAID Mode, select this device as desired in the boot priority settings



3. Initial *TeamPoS36xx* Setup

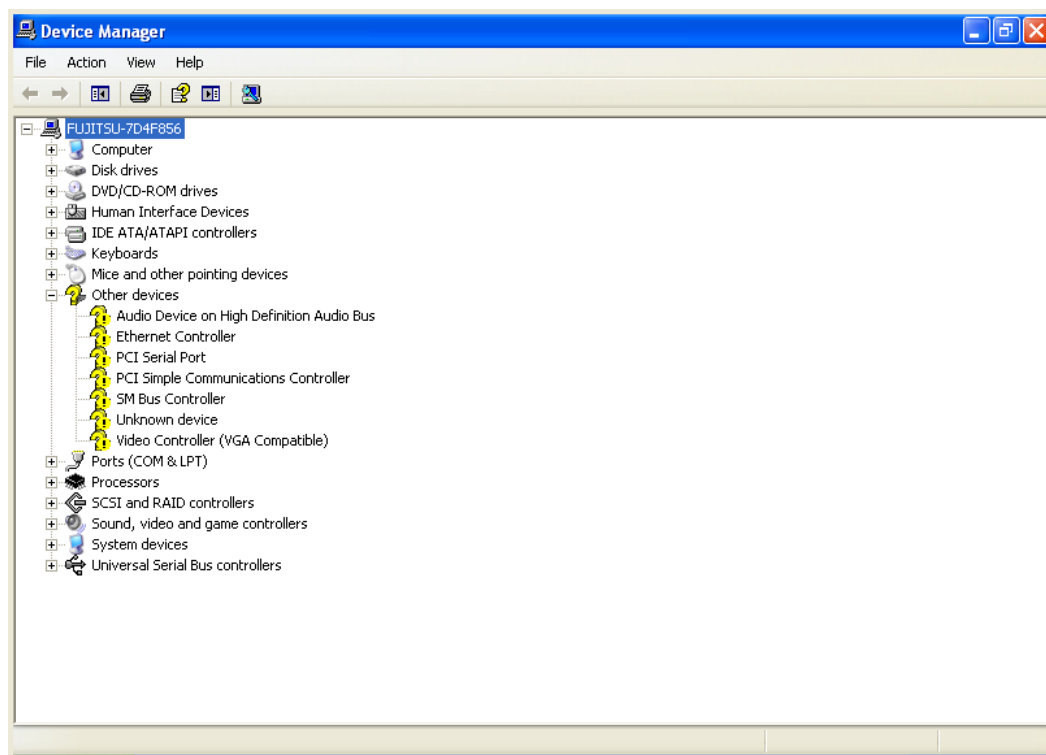
Install Microsoft Windows XP Pro SP3 from release media. As described above, use the F6 method to add third party RAID mass storage drivers during XP installation. Select "Intel® ICH8R/ICH9R/ICH10R/D0 SATA RAID Controller" from the SCSI device menu.



The SATA RAID drivers can be located on release images in folder \\TeamPoS36xx_Software_Support\\ControlUnit\\IntelRAIDStorageDriveFloppyImage, or from the Fujitsu support website:

<http://www.fujitsu.com/us/industries/retail/>

Once Windows XP Pro is installed and loads to the desktop, a look at the Device Manager will show several devices not yet setup, as depicted below.



The following describes steps for driver installation of the remaining devices.

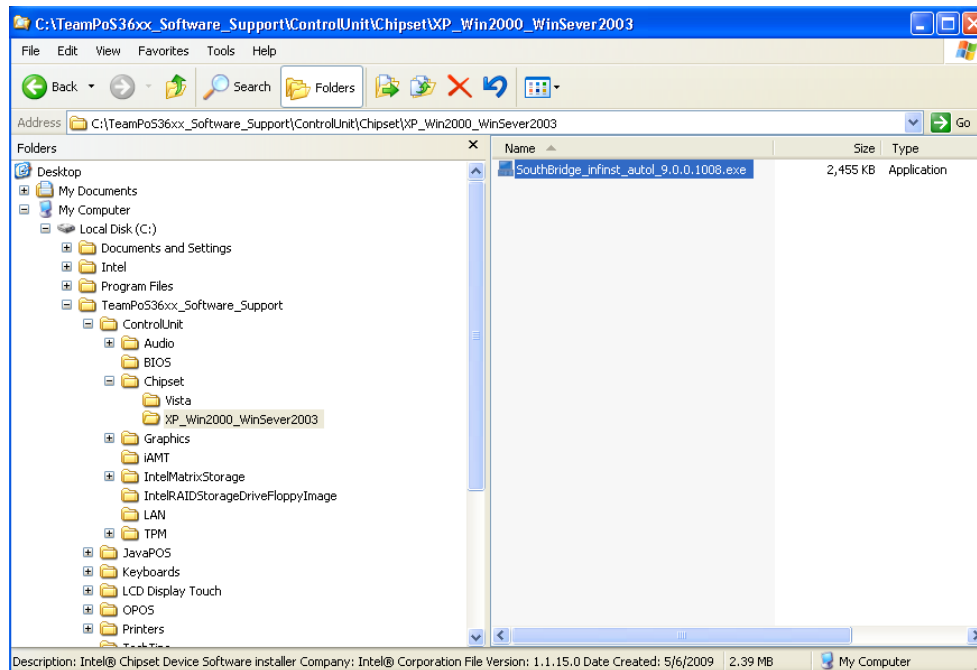
4. *TeamPoS36xx* Chipset

TeamPoS36xx utilizes the Intel® Q35 chipset with ICH9D0 I/O controller hub. Out-of-the-box Microsoft Windows XP Pro does not include all supporting drivers for this chipset. Install Q35 chipset support with the following steps:

Launch the chipset setup from

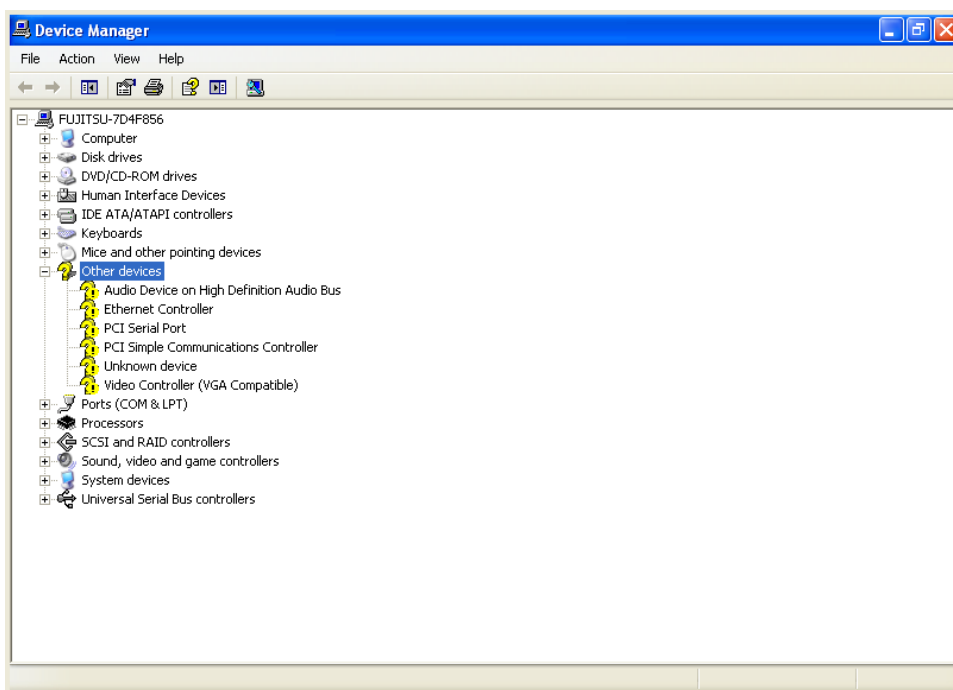
C:\TeamPoS36xx_Software_Support\ControlUnit\Chipsets\XP_Win2000_WinSever2003\SouthBridge_infinst_autol_9.0.0.1008.exe

and run to completion. Reboot the system when prompted.





After restarting the system, the following devices remain uninstalled:

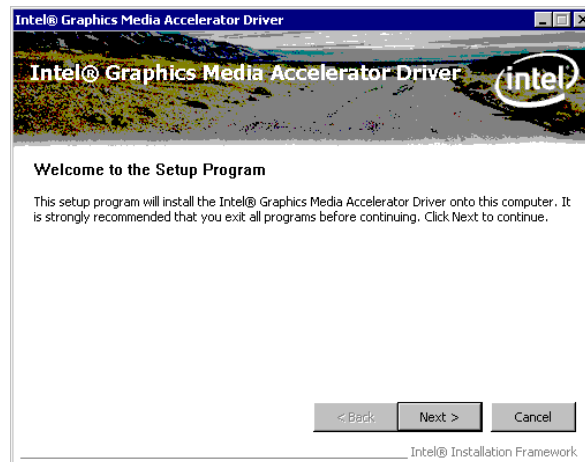


5. *TeamPoS36xx* Video

The *TeamPoS36xx* utilizes on-motherboard Intel® Graphics Media Accelerator 3100, supplying analog video output. Intel® Graphics Media Accelerator drivers are used and require installation after initial Windows XP Pro load.

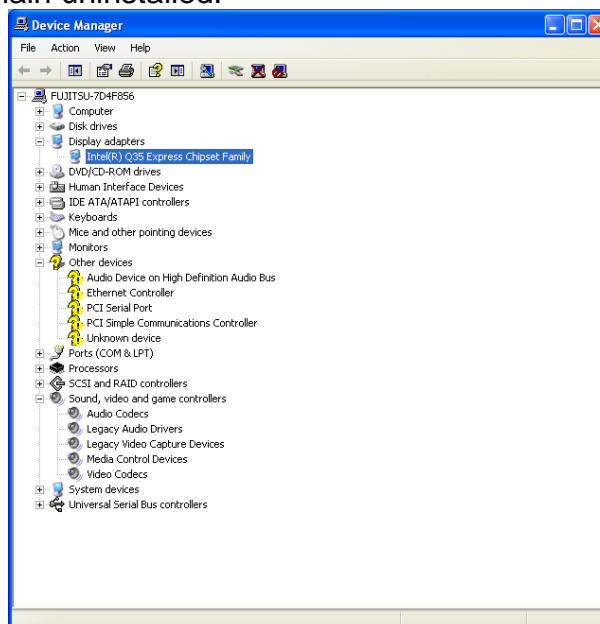
Locate the folder containing *TeamPoS36xx* Video Drivers and launch the setup. In this example, the driver setup program is:

..\TeamPoS36xx_Software_Support\ControlUnit\Graphics\ win2k_xp14363.exe



The screen will blink several times. Reboot the system when prompted.

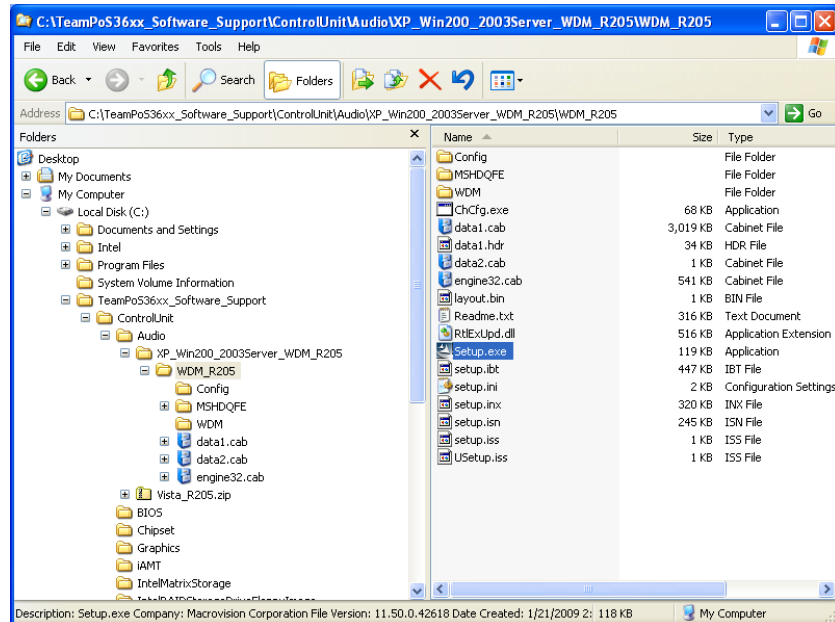
After restarting the system, the display adapter is configured, and the following devices in “Other Devices” remain uninstalled:



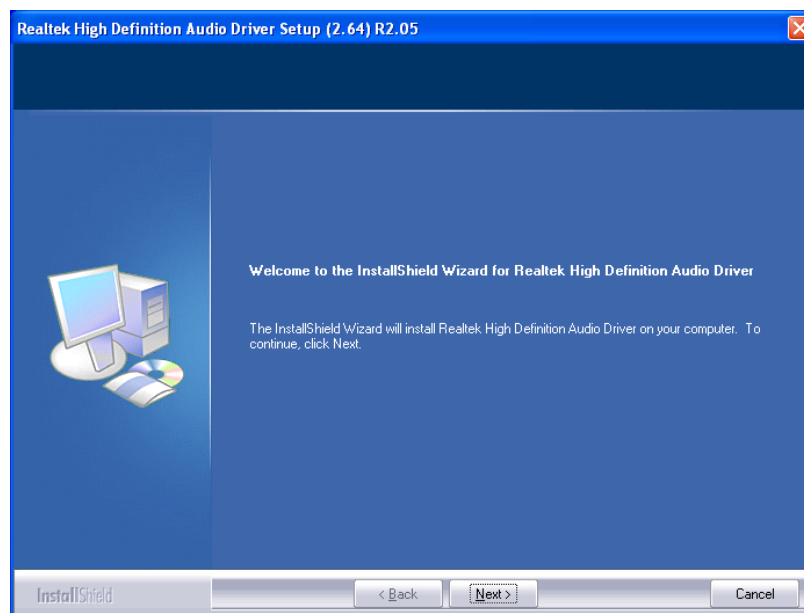
6. *TeamPoS36xx* Audio

The *TeamPoS36xx* on-motherboard supplied audio is a Realtek High Definition audio device. Navigate to the folder containing *TeamPoS36xx* Audio drivers and launch setup.exe. In this example, the drivers are located in:

c:\TeamPoS36xx_Software_Support\ControlUnit\Audio\XP_Win200_2003Server_WDM_R205\WDM_R205



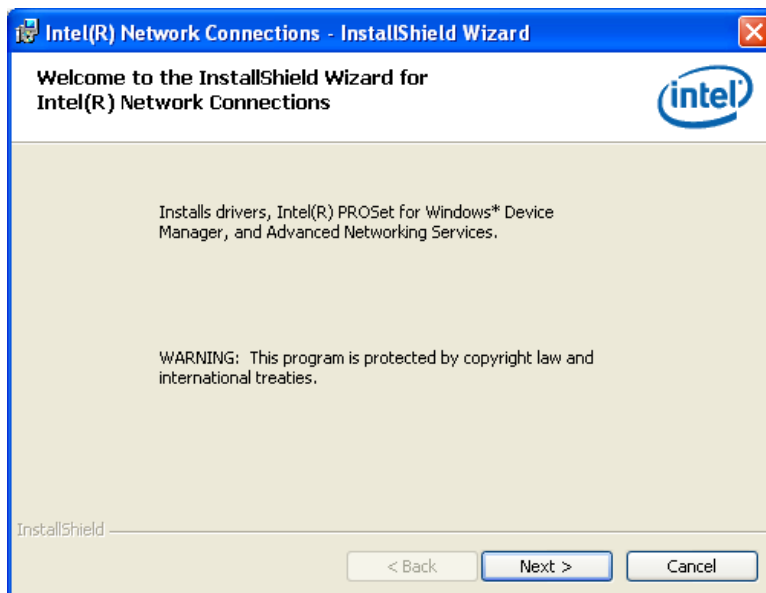
Run the installation to completion, and restart the system when prompted.



7. TeamPoS36xx Network Adapter

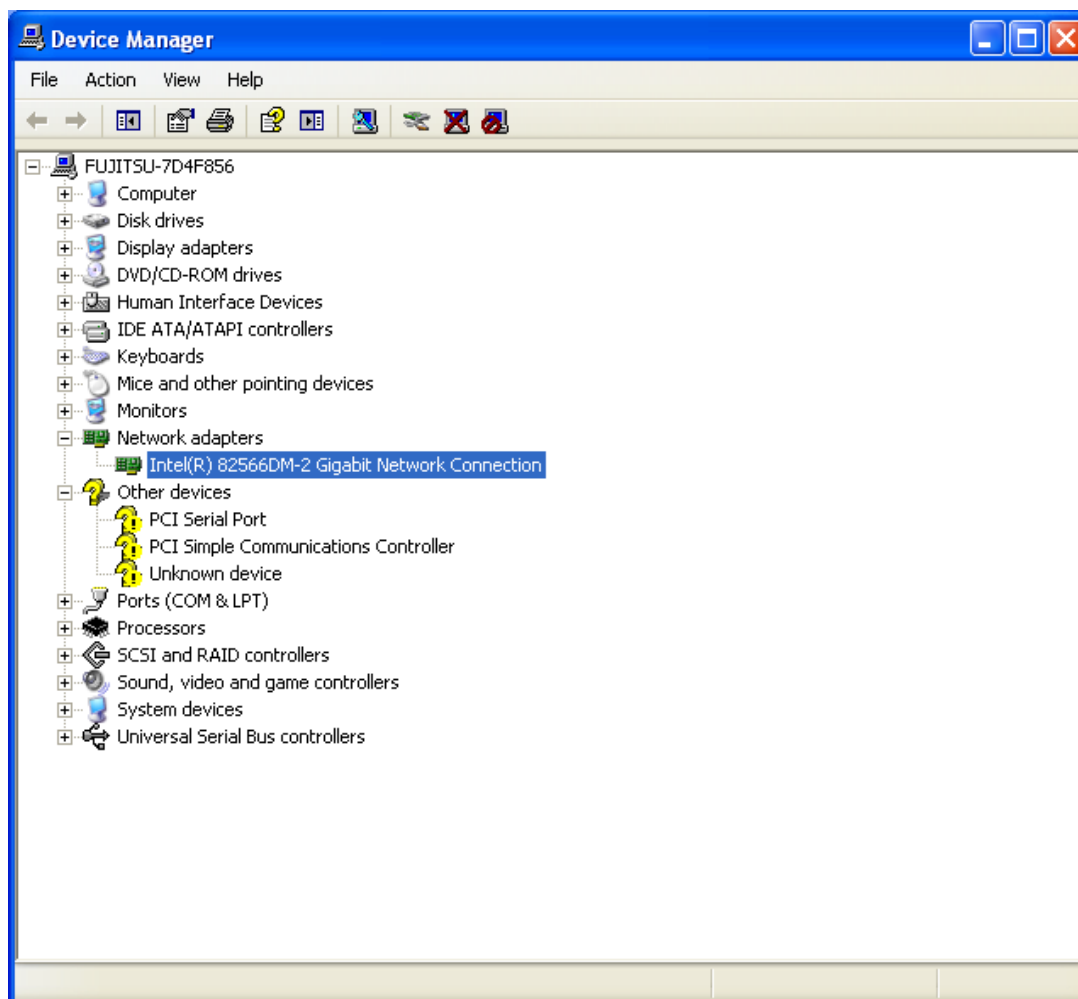
The **TeamPoS36xx** on-motherboard supplied network adapter is an Intel 82566DM-2 chip, and enumerates as *Intel 82566DM-2 Gigabit Network Connection*. Navigate to the folder containing **TeamPoS36xx** LAN drivers and launch the setup program. Take defaults and follow steps to completion. A reboot is not required. In this example, the drivers and install program are located in:

C:\TeamPoS36xx_Software_Support\ControlUnit\LAN\PRO2KXP_v13_3.exe





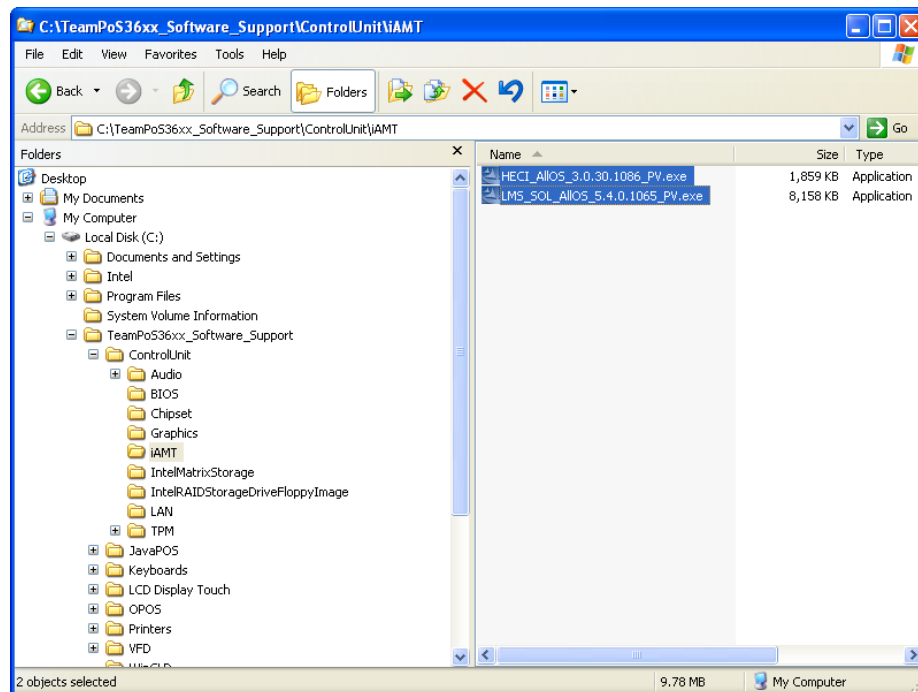
At this stage, several uninstalled devices remain. The PCI Serial Port and PCI Simple Communications Controller are components of Intel® Active Management Technology (iAMT). The Unknown device is the Infineon Trusted Platform Module.



8. TeamPoS36xx Intel® Active Management Technology

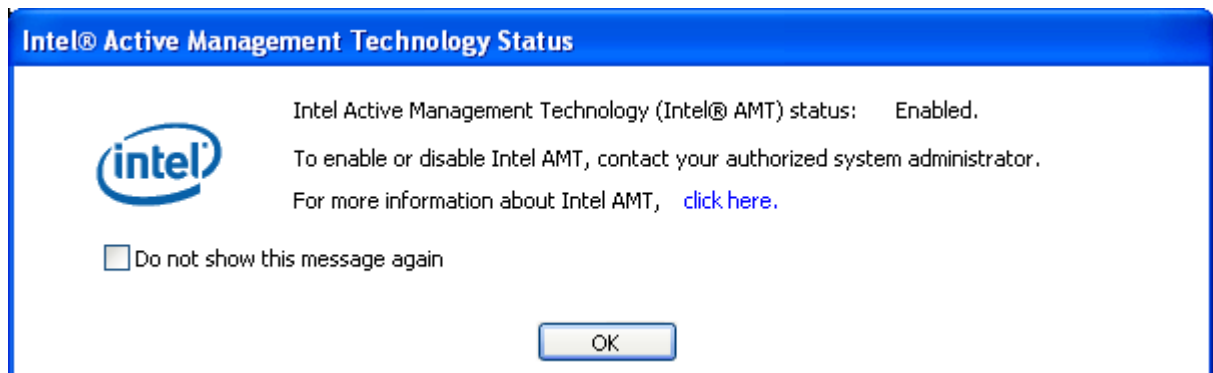
Intel® AMT is comprised of two hardware components exposed to Windows, The Intel Management Engine Interface, and Serial over LAN Interface. To install iAMT drivers, navigate to the folder containing the driver installation programs and run the setup. In this example, the install programs are found in folder:

c:\TeamPoS36xx_Software_Support\ControlUnit\iAMT

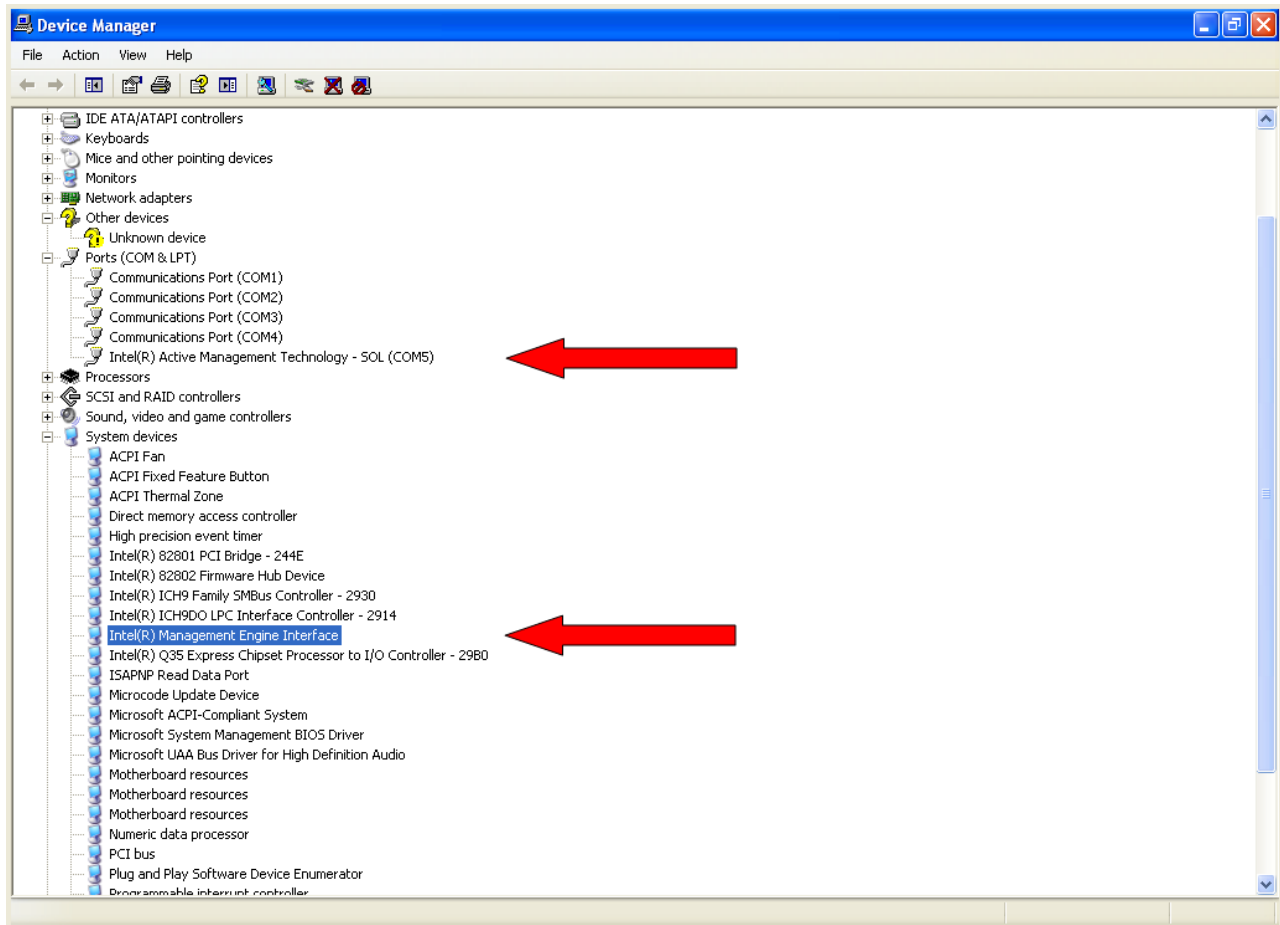


Run HECI_AILOS_3.0.30.1086_PV.exe to install support for the iAMT Management Engine Interface, and LMS_SOL_AILOS_5.4.0.1065_PV.exe for the Serial Over LAN interface.

The following pop-up is displayed after installing these components:

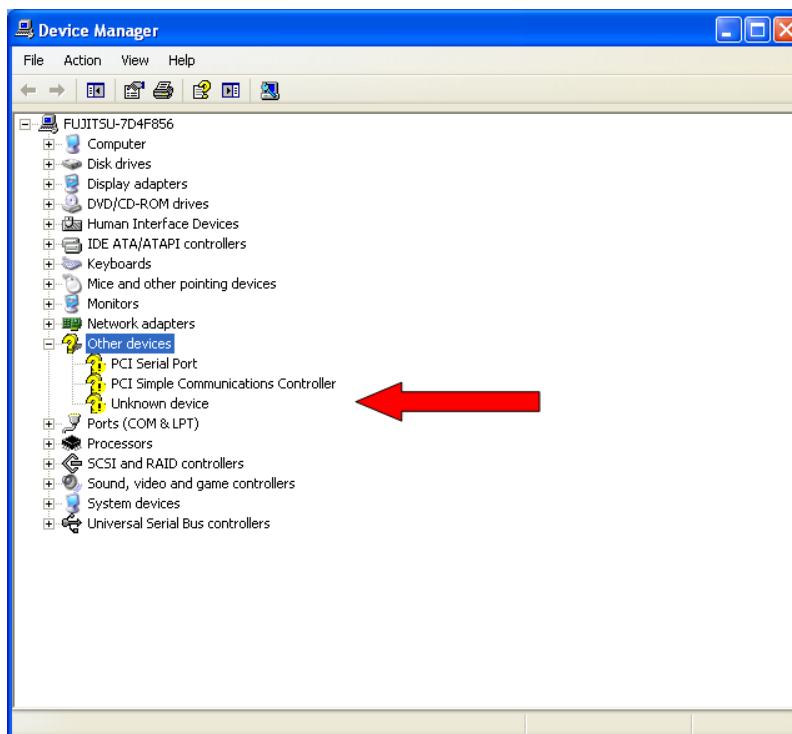


The devices are enumerated in Device Manager as shown below:

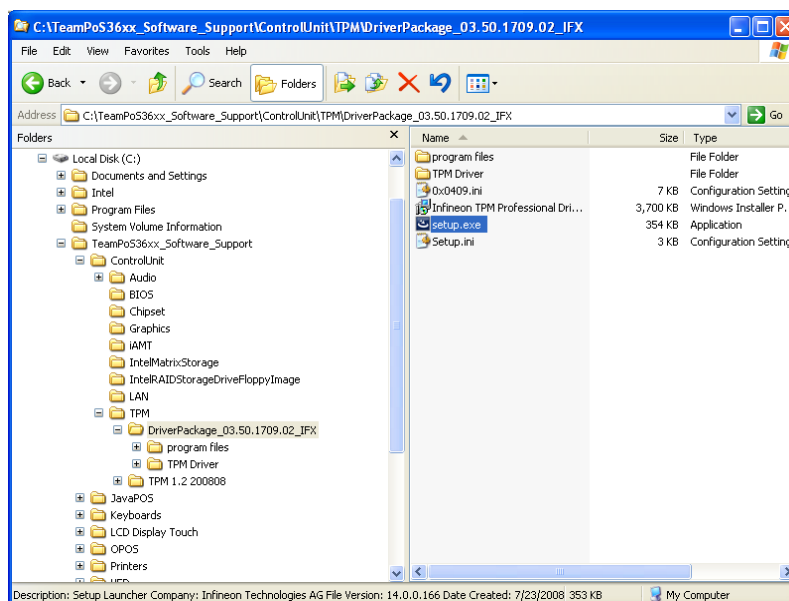


9. TeamPoS36xx Trusted Platform Module

The **TeamPoS36xx** incorporates the Infineon Trusted Platform Module (TPM). Device Manager shows the device as "Unknown Device" in the Other Devices category.

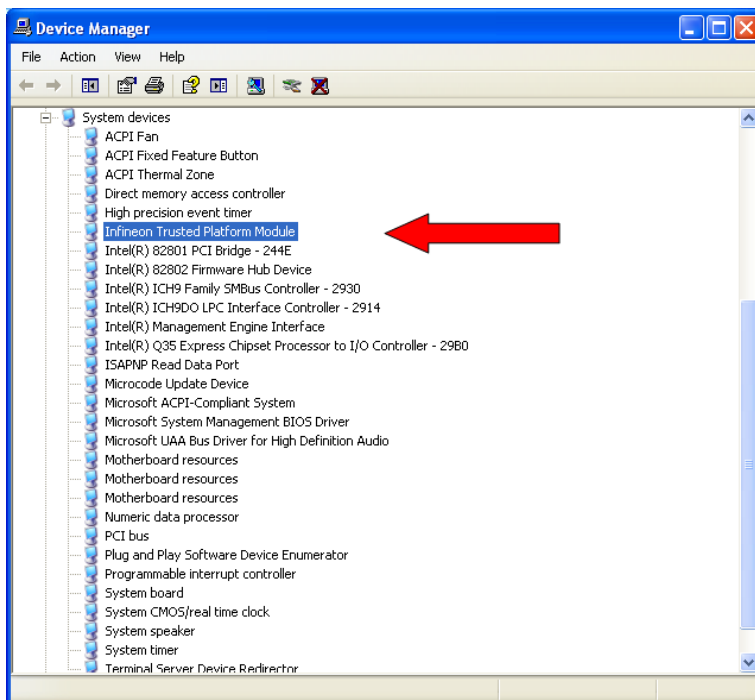


To install TPM driver support, navigate to the folder containing the TPM driver support and launch the setup. In this example, the install program is located in:



c:\TeamPoS36xx_Software_Support\ControlUnit\TPM\TPM 1.2
200808\DriverPackage_03.50.1709.02_IFX\setup.exe

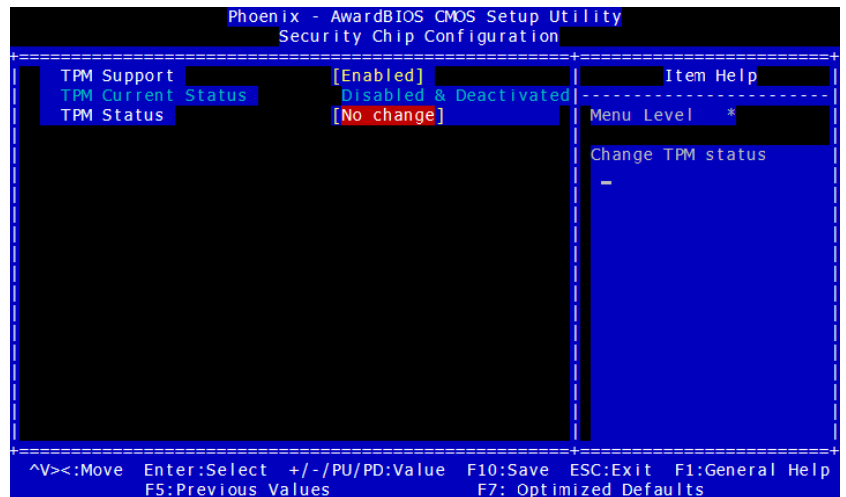
Once the driver is installed,
the device is displayed in
Device Manager\System
Devices branch:





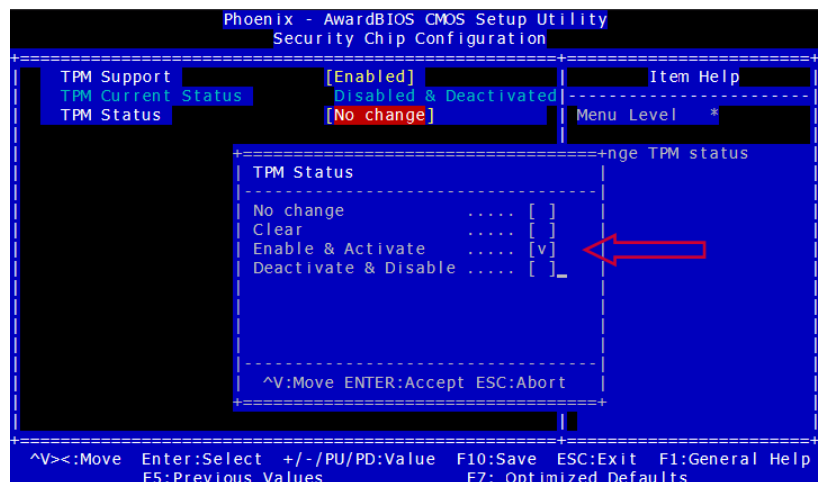
Actual use of the Trusted Platform Module entails activating the module in BIOS and installing the Infineon TPM Security Platform Tool.

In BIOS setup, navigate to the *Security Chip Configuration* screen. If BIOS defaults are set, TPM Support is “*Enabled*”, and TPM Status is “*No Change*”.



To activate TPM, change the TPM Status to “***Enable & Activate***”, exit and save BIOS changes.

Upon first reboot, a confirmation screen will be displayed. Confirm the TPM Status change and start Windows.



To install the Infineon TPM Security Platform Tool, in Windows, run setup.exe from:

C:\TeamPoS36xx_Software_Support\ControlUnit\TPM\TPM 1.2
200808\Utility\TPM_HostSW_3.5_RC3_IFX

Documentation can be found in the following pdf file:

C:\TeamPoS36xx_Software_Support\ControlUnit\TPM\TPM 1.2 200808\Utility\SPI v1 0_TPM
Professional Package v 3 0.pdf



Following installation, the Infineon TPM Manage Security Platform program is available from the Start Menu.



On-line help is also installed. Follow the instructions available in the on-line help and supplied PDF to properly setup and use the Trusted Platform Module.