

# Installation Guide of Ultra ATA-133 Controller

The ATA-133 controller provides one 40-pin, 80-conductor IDE cable with a black connector on one end, a blue connector on the other and a gray connector in the middle.

How to connect the IDE cable to the drive :

1. Attach the black connector to the Master IDE drive
2. Attach the blue connector to the ATA-133 controller
3. Attach the gray connector to the Slave IDE drive (CD-ROM, DVD-ROM, CD-RW, tape drive, secondary hard drive)
4. The red line on the cable should be aligned with pin-1 of drive and the ATA-133 controller.

Pin-1 of Cable: with red strip

Pin-1 of Drive: next to the power connector

Pin-1 of ATA-133 : on the left side of the IDE connector.

IDE-1 is the Primary IDE Port & IDE-2 is the Secondary IDE Port.

5. Attach the two-threaded IDE HDD LED connector of the computer chassis to HDD LED jumper (LED 1 & 2 ).

## Windows 98/ 98SE / ME Drivers Installation

*When installing ATA-133 to an existing Windows 98/98SE/ME system, you need to run the update program to install the driver for ATA-133 PCI controller card. The driver package is located in the ATA-133 driver diskette.*

1. Power off the system. Connect the hard drivers to the ATA-133 controller and insert the controller to a PCI free slot. Power up the system.
2. During the system boots up, the Hardware Wizard will find a "PCI RAID Controller" , click "Next" . Select "Search for the best driver for device [Recommended]" and click "Next".
3. Check the "Floppy disk drives" and insert the ATA-133 driver diskette into floppy drive. Click "Next" .
4. System will go through the enumeration process and install the driver .At the end of the process, click " Finish" to complete the installation.
5. Reboot the system.

## Verifying Controller Installation under Windows 98/98SE/ME

***Follow the instructions in this section to verify that the controller was installed correctly on Win98/98SE and Windows ME.***

1. Right click on “My Computer” icon, select “Properties”. Click on “Device Manager” tab.
2. Double click on “Hard Disk Controllers”, If there is no yellow ‘!’ or ‘?’ in front of “Silicon Image Sil 0680 ATA/133 Controller”, the driver is started correctly.
3. To view information about the devices attached to the controller, double click on the “Silicon Image ATA Controllers” control panel applet. Select a controller from the list at the top of the dialog. Then select a device from the “Device Location” drop down list to view its information.

## Windows 2000 / XP Driver Installation

**The first time when you install the driver ATA-133 controller in Windows 2000/XP, Please note you cannot connect the booting hard drive to the IDE channel of ATA-133 controller. The booting hard drive must be remained to be connected to the original booting IDE interface, i.e., the onboard IDE.**

1. Power off the system. Insert the ATA-133 controller into a free PCI slot. Power up the system.
2. During OS boots up, Windows 2000/XP will display the “Found New Hardware Wizard”. Click “Next”.
3. Select “Search for a suitable driver for my device (Recommended)”, and click “Next”.
4. Under “Optional search locations” insure that “Floppy disk drives” is checked.
5. Insert the diskette labeled “ATA-133 Driver” into A: , and click “Next”.
6. When the wizard indicates that it found a driver for the device, click “Next”.
7. If the “Digital Signature Not Found” dialog appears, click “Yes” to continue installing the driver.
8. The wizard will now copy the required files to the system and start the driver. After starting the driver the wizard will display a completion dialog, click “Finish” to exit the wizard.

## Windows NT4.0 Driver Installation

***When installing ATA-133 to an existing Windows NT4.0 system, you need to run the update program to install the driver before you install the ATA-133 controller into your system.***

1. After NT4.0 boots up, Click “Start”.
2. Under “Settings”, click “Control Panel”.
3. Select “SCSI Adapters” from the Control Panel.
4. Select the “Drivers” tab , and click “Add”.
5. Click “Have Disk”.
6. Insert the diskette labeled “ATA-133 Driver” into A: , and press “Enter”.
7. Choose “Silicon Image Sil 0680 ATA/133 Controller” , and click “OK” to start driver installation. Click “OK”, and the system will restart.
8. Power off the system. Connect the hard drives to ATA-133 controller , and insert the controller into a PCI slot. Power up the system.

**Note:** If the system fails with a blue screen with the third line from top showing “ Inaccessible\_boot\_device”, then the ATA-133 driver is not loaded properly. Go back to step 1 , and follow the procedure again.

The following steps are optional to get maximum performance:

- Run the CMDcfgnt.exe program by selecting the Start button and select Run.
- In the general tab, you can change the PCI Bus speed and to enable DMA. And, if you wish to enable the DMA capabilities of the controller, then check the “Enable DMA” box.
- The boot controller tab allows you to selectively tune each drive in a channel. For example, let’s run secondary channel slave drive to do ultra mode 1. In the secondary channel override, put a check for the slave box. Next, click on the UDMA button. Then, pull down the dialog and select mode 1. Click OK and reboot the system.

## **Verifying Controller installation under Windows NT4.0 / 2000 /XP**

***Follow the instructions in this section to verify that the controller was installed correctly on Windows 2000/XP and Windows NT.***

### **For Windows 2000/XP**

1. Right click on “My Computer” icon, select “Properties”.
2. Click on “Device Manager” tab.
3. Double click on “Hard Disk Controllers”, If there is no yellow ‘!’ or ‘?’ in front of “Silicon Image Sil 0680 ATA/133 Controller”, the driver is started correctly.
4. To view information about the devices attached to the controller, double click on the “Silicon Image ATA Controllers” control panel applet. Select a controller from the list at the top of the dialog. Then select a device from the ‘Device location’ drop down list to view its information.

### **For Windows NT 4.0**

1. Double click on “My Computer” icon, select “Control Panel” . Click on “SCSI Adapters” icon, the “Silicon Image ATA/133 Controller” should display correctly under “Device” and “Driver” tab.
2. To view information about the devices attached to the controller , double click on the “Silicon Image ATA controller” control panel applet. Select a controller from the list at the top of the dialog. Then select a device form the “Device Location” drop down list to view its information.

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