4-pin ATX Power Supply

Pin	Signal Name
1	Ground
2	Ground
3	+12V
4	+12V

About the Soft Touch Power Button

In an ATX based system, the new soft touch power button replaces the main power switch that turns your system on and off. From an OFF state, you can switch the system ON by simply pressing the power button. From an ON state, the system can be turned OFF by pressing and holding the power button for four (4) seconds OR shut down instantly. The functions of the power button can also be altered in the Power Management section in the BIOS setup.

C  Universal Serial Bus (USB) / Lan (Optional) Connector

The Mainboard provides Two 4-pin Universal Serial Bus (USB) connectors. USB is a new interface standard for adding external Plug-and-Play (PnP) devices to the computer system. Peripherals that support USB PnP capabilities can operate at up to a 12Mb/sec data transfer rate. Eventually, all external devices connected to your computer will be standardized to USB.

Your mainboard may come with an optional onboard LAN function. It utilizes the Intel 82562ET Physical Layer Interface, which is IEEE 10BASE-T and 100BASE-TX compliant. If your mainboard does come with an onboard LAN function, make sure it is enabled in the BIOS setting under “Integrated Peripherals” in order to use it. If you rather install and use the LAN function on the CNR card, make sure you disable the onboard LAN function and select “EXT. CNR” in the BIOS setting. The reason being that they both share the same LAN controller on the ICH2 chip. Only one physical layer interface can uses the LAN controller at a time, otherwise conflict will occur.

c  **Universal Serial Bus (USB) Header**

Connect this header to the optional USB extension cable for a USB port.

D  **Serial (COM1 & 2) Headers**

The Mainboard provides two 9-pins serail port headers.

E  **Infrared (IR) Header**

The Mainboard provides a 5-pin header interface, IR for connection to a Hewlett Packard HSDSL-1000 compatible infrared (IrDA) transmitter/receiver. Connect IR to the front panel I/O IrDA connector provided with your system. Once the module is connected to the front panel I/O IrDA connector, Serial port 2 can be re-directed to the IrDA module. When configured for IrDA, the user can transfer files to or from portable devices such as laptops, PDA’s, mobile phone and printers using application software such as LapLink. The IrDA specification provides for data transfers at 115 kbps from a distance of 1-meter. Support for Consumer infrared (ASK-IR) is also included. Please refer to your IR equipment for more detailed information.

The header pin-out is as follows:

Pin . . . . . Signal Name
1 . . . . . VCC, power source
2 . . . . . No Connection
3 . . . . . IRRX, infrared receive
4 . . . . . Ground
5 . . . . . IRTX, infrared transmit

F Memory Module Sockets

The Mainboard provides 168 pin standard DIMM sockets for installation of 3.3V unbuffered Single or Double Bank SDRAM modules.

G Parallel Port Connector

The ATX Mainboard provides a parallel port connector. Based on the ATX standard, a 25-pin parallel port is now built on the mainboard back panel. This design makes the mainboard installation easier. The parallel port can be BIOS configured into standard (SPP) mode, Enhanced Parallel Port (EPP) mode, and a high speed Extended Capabilities Port (ECP) mode. EPP Mode requires a driver provided by the peripheral manufacturer in order to operate properly.

H Accelerated Graphics Port [AGP] Connector

The Mainboard provides an AGP slot compatible with the Accelerated Graphics Port specification. AGP compliant video cards offer a much higher throughput than equivalent PCI bus video cards. PCI currently only supports a 33MHz bandwidth, and can transport at peak rates up to 133MB/s over its 32 bit data bus. AGP operates at a 66MHz bandwidth which enables a peak rate of 266MB/s in what is known as 'X1' mode. 'X2' mode has a peak rate of 532MB/S. 'X4' mode has a peak rate as high as 1.06GB/S. However, the 845 chipset only support the 1.5V AGP under 4X mode.

I LITHIUM BATTERY

A 3V, CR2032, Lithium battery is installed on the on-board battery socket. This battery is used to supply the CMOS RAM backup power during system powered-off. Danger of explosion if battery is incorrectly replaced. Therefore, if you have any difficulties, please consult the technical personnel.

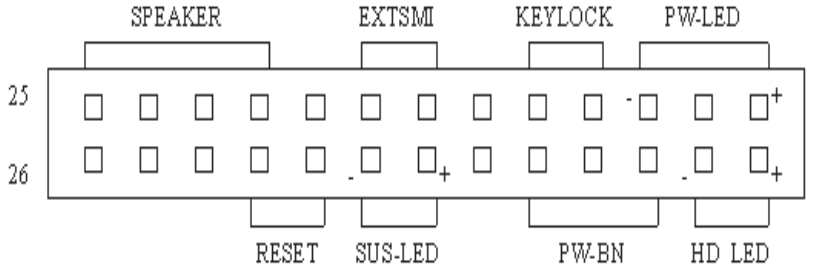
J  PCI Add-In Board Connector

The Mainboard provides 6 PCI Connector for the PCI cards.

M  Front Panel Function Connector

The Mainboard integrates all system front panel functions into a single on-board connector. These include connections for the following features:

Function	Connector Pin-Out Label
System Reset	RESET
Power LED / Keylock	PW-LED
Hard Drive Activity LED	HD_ LED
Soft-Touch Button Power On/Off	PW-BN
External Power Saving Control (optional)	EXTSMI
Suspend LED	Sus-Led
External speaker	Speaker



N  Flash BIOS

The Mainboard Flash BIOS provides users with more flexibility in upgrading their mainboards. The flash BIOS can be easily reprogrammed via software.

O  Floppy Drive Header

The Mainboard provides a 34-pin header that supports the included floppy drive ribbon cable. After connecting the single end to the on-board “FLOPPY” header, connect the remaining plugs on the other end of the cable to the corresponding floppy drives.

P  IDE Device Headers

The Mainboard provides two independent bus-mastering PCI IDE interfaces capable of supporting up to Mode 4 and Ultra DMA-33/66/100 devices. The system BIOS supports automatic detection of the IDE device data transfer rate and translation between different kinds of device modes such as Logical Block Addressing (LBA), Extended Cylinder Sector Head (ECSH) translation modes and ATAPI (e.g., CD-ROM) devices on both IDE interfaces.

The two on-board IDE headers support the provided 80-pin IDE hard disk ribbon cables. If you install two hard disks and/or CD-Rom drives onto the same cable, you must configure the two drives by setting their IDE master/slave jumpers according to the documentation for those devices.

You may also connect the two hard disk drives so that both become Masters, using one ribbon cable on the primary IDE header and one on the secondary IDE header.

Q  **WAKEUP-LINK Header**

The Mainboard provides on WAKEUP-LINK header (WOL1) used to connect an add-in Network Interface Card which has Wakeup capability.

r  **"CNR" Add-in Board Connector**

Communication & Networking Riser (CNR) is a new interface standard for Networking or modem add-in card.

S  **CPU Socket**

The Mainboard provides a 478-pin CPU Socket for Intel Pentium 4 processor. The CPU should have a heatsink along with a fan attached to it to prevent overheat. If a fan is not present, a fan should be installed prior to turning the system on.

T  CPU & System Fan Headers

The recommended heatsink for the processor are those with 12 Volt three-conductor fan that can be connected to the fan connector on the mainboard. It provides +12 Volts DC for the CPU cooling fan as follows:

PIN	SIGNAL NAME
1	Ground
2	+12V
3	FAN Speed Detect

CAUTION! Be sure that sufficient air circulation is available across the processor's heatsink by regularly checking that your CPU fan is working. Without sufficient circulation, the processor could overheat and damage both the processor and the mainboard. You may install an auxiliary fan if necessary.

The SYSTEM FAN header is provided for optional cooling fans.

U  Game & Audio Connectors

The Mainboard provides Game & Audio connectors.

 Line Output

 Line Input

 Microphone Input

 Game Port

X  **CD Audio Connector**

CD Audio input (Right, Ground, Ground, Left)

Y  **Auxiliary Audio Connector**

Auxiliary audio input (Right, Ground, Ground, Left)

CD Driver & Software Installation Guide

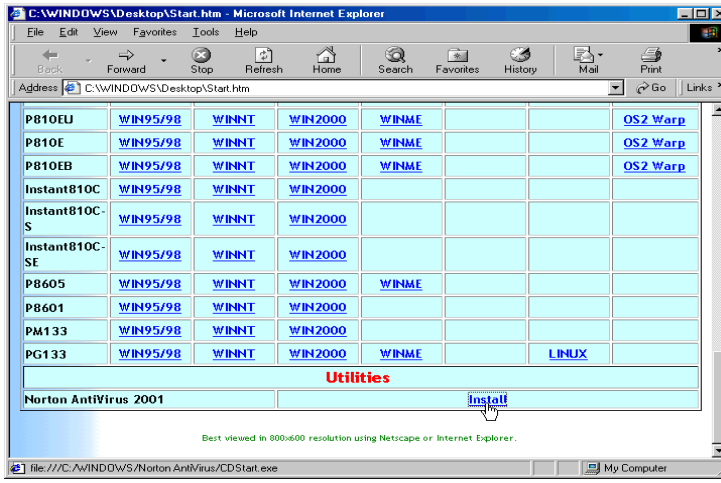
Steps :

1. Boot up the Operating System (Windows 95/98/NT/ME/2000)
2. Put the CD Disc into the CD-ROM Drive and wait for Autorun
3. Select A845SD and click your Operating System Type
4. Follow the instructions and install suitable drivers

Norton AntiVirus 2001

Norton Anti-Virus OEM Version Setup Guide

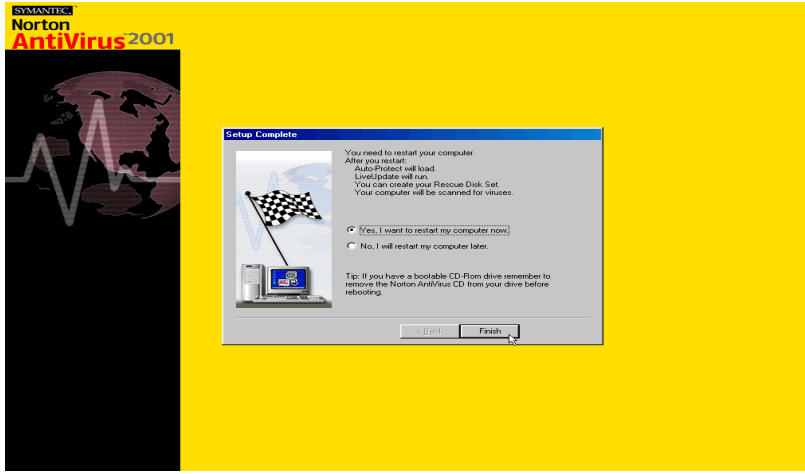
Step 1 : Load the Driver CD in CDROM and find the Norton AntiVirus 2001 "Install" Option.



Step 2 : When CD finishes loading, press " Install Norton AntiVirus" to install the software.

Step 3 : Follow the installation procedures on screen.

Step 4 : Select "Yes" and press "Finish" button to reboot computer.



INSTANT ON Guide

Introduce INSTANT ON function:

INSTANT ON is a Windows 98 ACPI sleep mode function. When recovering from sleep mode, the system is able, in just a few seconds, to retrieve the last “state” of the system before it went to sleep and recover to that state. The “state” is stored in memory (RAM) before the system goes to sleep. During sleep mode, your system uses only enough energy to maintain critical information and system functions, primarily the system state and the ability to recognize various “wake up” triggers or signals, respectively.

INSTANT ON function Installation

Please follow the steps to complete the **INSTANT ON** function installation.

1. Power on the computer when memory counting starts, press <Del>. You will enter BIOS Setup. Select the item “**POWER MANAGEMENT SETUP**”, then select **S3 (STR)** in “**ACPI Suspend Type**” option. Remember to save the settings by pressing "ESC" and choose the “SAVE & EXIT SETUP” option.

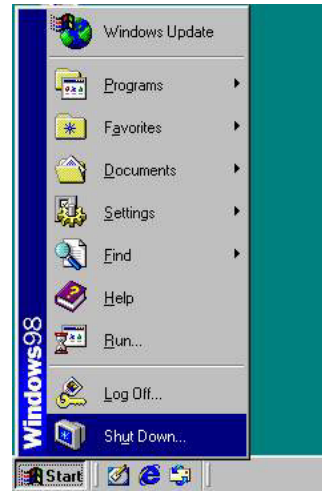
2. The installation of **INSTANT ON** is completed.
You can use this function in Windows 98.

3 How to put your system into Stand by mode ?

There are two ways :

1. Choose the “Stand by” item in the “Shut Down Windows” area.

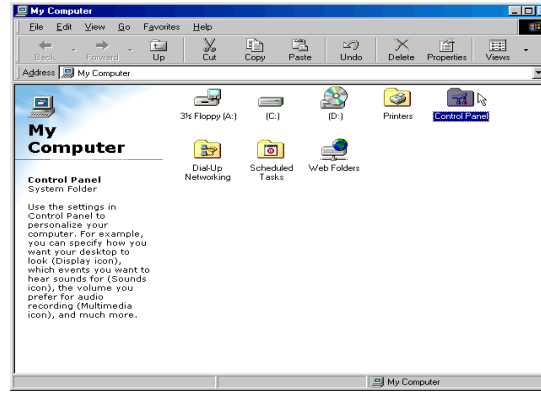
A. Press the “Start” button and then select “Shut Down”



B. Choose the “Stand by” item and Click “OK”

2. Set the system ”power on” button to initiate sleep mode in Win95/98:

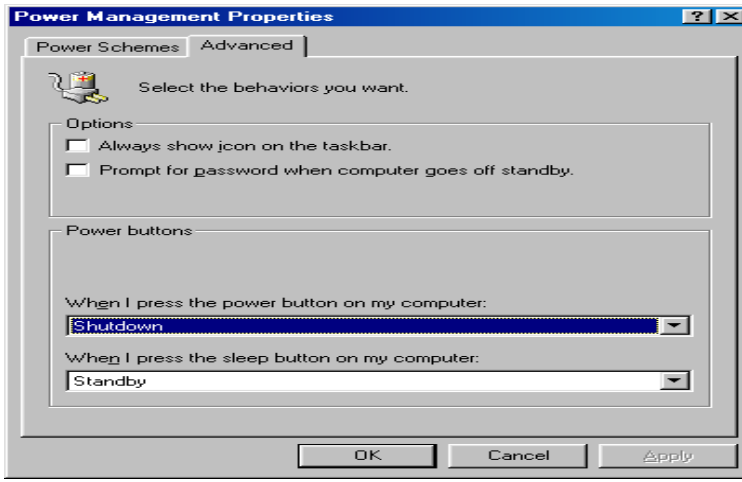
A. Double click “My Computer” and then “Control Panel”



B. Double click the “Power Management” item.

C. Select the “Advanced” tab and “Standby” mode in Power Buttons.

Restart your computer to complete setup.
Now when you want to enter sleep mode, just press the “Power on” button.



5 How to recover from the sleep mode?

There are four ways to “wake up” the system:

1. Press the “Power On” button.
2. Use the “Keyboard Power On” function.
3. Use the “Modem/Lan Resume" function.
4. Use the “Resume by Alarm” function.

Notice to INSTANT ON users :

1. ATX power supply requirement
   - comply with the ATX 2.01
   - provide more than 720 mA 5V Stand-By current

2. SDRAM requirement
   - PC133 compliant.

According to FCC Rule Parts 15.21 and 15.105(b), the following statements should be placed in a prominent location of the User's Manual for this device.

NOTE : THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

NOTE :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful Interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.