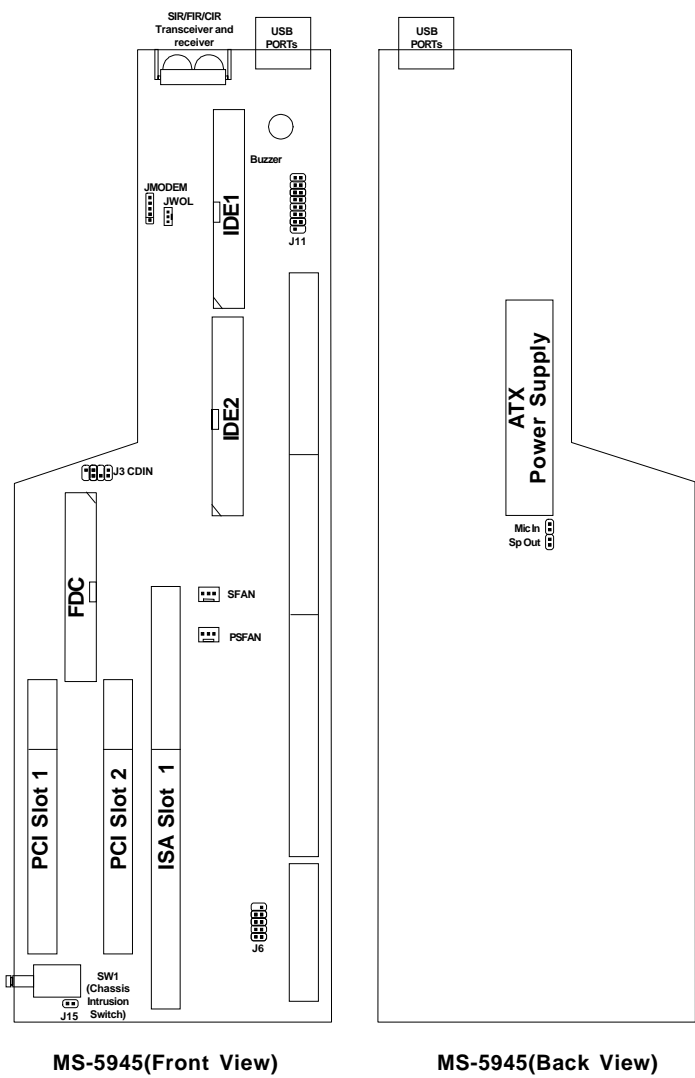
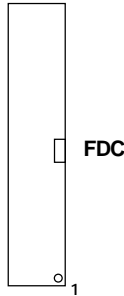


Chapter 9 MS-5945 RISER CARD



a. Floppy Disk Connector: FDC

The mainboard also provides a standard floppy disk connector FDC that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

**b. External Audio Jack Connector: J6 (reserved)**

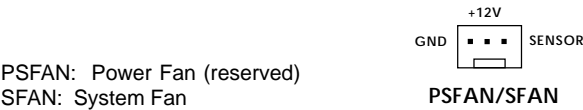
This connector is used for Audio-Jacks such as: Speaker, Line-In, and Mic.

c. Chassis Intrusion Switch: SW1

The Switch is used to monitor any intrusion on the system. If the Chassis is open, the switch will be turn on. The system will record this status. To clear the warning, you must enter the BIOS settting and clear the status.

d. Power/System Fan Connector: PSFAN(reserved)/SFAN

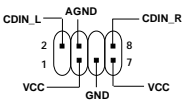
This connector support system cooling fan with +12V. It supports three pin head connector. When connecting the wire to the connector, always take note that the red wire is the positive and should be connected to the +12V, the black wire is Ground and should be connected to GND. If your mainboard had a System Hardware Monitor chipset on-board, you must use a specially designed fan with speed sensor to take advantage of the power and system fan control.



Note: For fans with speed sensor, every rotation of the fan will send out 2 pulses. System Hardware monitor will count and report the fan rotation speed.

e. CD-ROM Power/Audio In Connector: J14

This connector is connected to the MS5943 CDIN. The MS5943 should be connected at the back of the CD-ROM. The MS5943 contains an IDE connector and a CDIN connector.



f. Hard Disk Connectors: IDE1 & IDE2

The mainboard has a 32-bit Enhanced PCI IDE Controller that provides PIO mode 0~4, Bus Master, and Ultra DMA/33 function. It has two HDD connectors IDE1 (primary) and IDE2 (secondary). You can connect up to four hard disk drives, CD-ROM, 120MB Floppy (reserved for future BIOS) and other devices to IDE1 and IDE2. These connectors support the provided IDE hard disk cable.

IDE1(Primary IDE Connector)

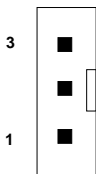
The first hard drive should always be connected to IDE1. IDE1 can connect a Master and a Slave drive. You must configure second hard drive to Slave mode by setting the jumper accordingly.

IDE2(Secondary IDE Connector)

IDE2 can also connect a Master and a Slave drive.

g. Wake On LAN Connector: JWOL

The JWOL connector is for use with LAN add-on cards that supports Wake Up on LAN function.



JWOL

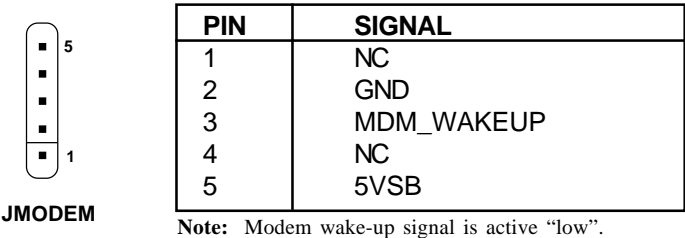
PIN	SIGNAL
1	5VSB
2	GND
3	MP_WAKEUP

Note: LAN wake-up signal is active “high”.

Note: To be able to use this function, you need a power supply that provide enough power for this feature.
(750 ma power supply with 5V Stand-by)

h. Modem Wake Up Connector: JMODEM

The JMODEM connector is for used with Modem add-on card that supports the Modem Wake Up function. To use this function you need to set the “Resume By Ring” to enable at the BIOS Power Management Setup.



Note: To be able to use this function, you need a power supply that provide enough power for this feature.
(750 ma power supply with 5V Stand-by)

i. Microphone Connector: J13 MIC IN

Connect the Microphone connector from the Front panel into this Connector.

j. Speaker Out Connector: J12 SP IN

Connect the Speaker connector from the Front panel into this Connector.

k. USB Ports

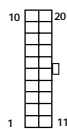
The mainboard provides a UHCI(Universal Host Controller Inter-
face) Universal Serial Bus root for attaching USB devices like:
keyboard, mouse and other USB devices. You can plug the USB
device directly to this connector.



PIN	SIGNAL
1	VCC
2	-Data0
3	GND
4	+Data0

l. ATX 20-pin Power Connector: JPWR1

This connector supports the power button on-board. Using the ATX
power supply, functions such as Modem Ring Wake-Up and Soft
Power Off are supported by this mainboard. This power connector
supports instant power on function which means that system will
boot up instantly when the power connector is inserted on the board.



ATX Power
Connector

PIN DEFINITION

PIN	SIGNAL	PIN	SIGNAL
1	3.3V	11	3.3V
2	3.3V	12	-12V
3	GND	13	GND
4	5V	14	PS_ON
5	GND	15	GND
6	5V	16	GND
7	GND	17	GND
8	PW_OK	18	-5V
9	5V_SB	19	5V
10	12V	20	5V

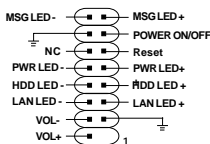
Warning: Since the mainboard has the instant power on function, make
sure that all components are installed properly before inserting the power
connector to ensure that no damage will be done.

m. IrDA Infrared Module Sensor: SIR/FIR

The mainboard provides IR sensor. This is an optional wireless transmitting and receiving infrared module. You must configure the setting through the BIOS setup to use the IR function.

n. Case Connector: J11

This connector support the cable connected to the LED board bracket.



o. Chassis Protection Enable/Disable Jumper: J15

This jumper is used with Chassis Intrusion Switch (SW1). When J15 is open, the system will shut down when the Chassis Intrusion Switch is turn on. When J15 is short, the Chassis Intrusion Switch is on normal operation.