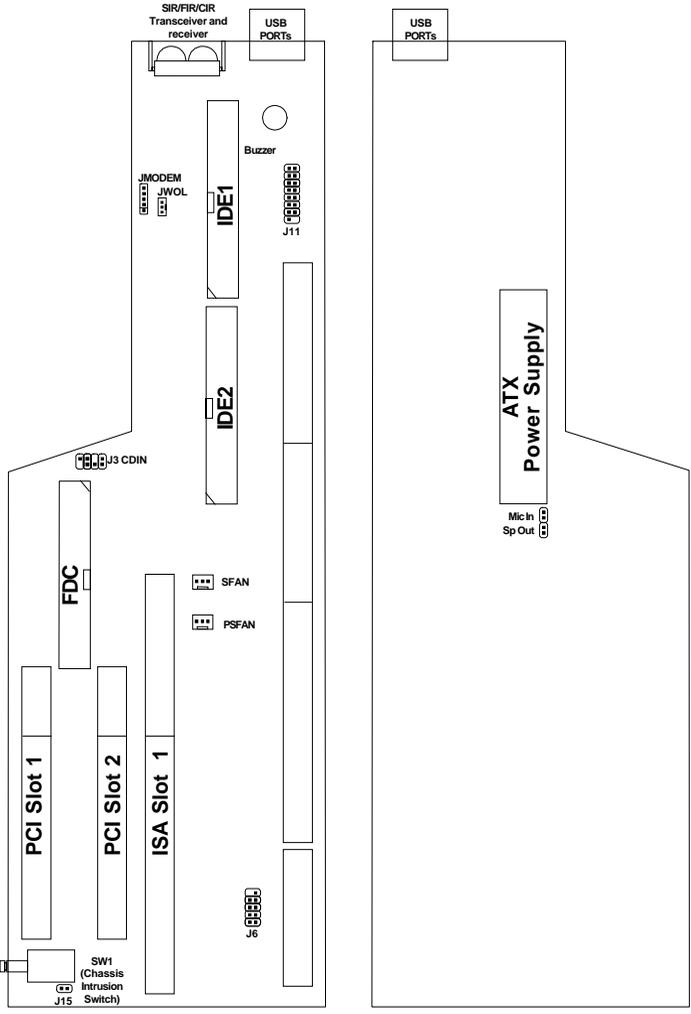


Chapter 8 MS-5945 RISER CARD

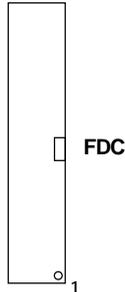


MS-5945(Front View)

MS-5945(Back View)

**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.

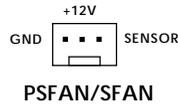
**c. Chassis Intrusion Switch: SW1**

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 setting 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.

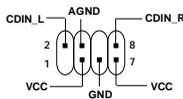
PSFAN: Power Fan (reserved)  
SFAN: System Fan



**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)**

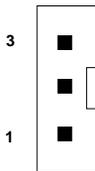
The first hard drive should always be connected to IDE1. IDE1 can connect a Master and a Slave drive. You must configure second hard drive to Slave mode by setting the jumper accordingly.

**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**

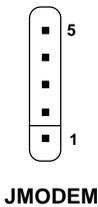
PIN	SIGNAL
1	5VSB
2	GND
3	MP_WAKEUP

**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.



PIN	SIGNAL
1	NC
2	GND
3	MDM_WAKEUP
4	NC
5	5VSB

**Note:** Modem wake-up signal is active “low”.

**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 Connetor.

**j. Speaker Out Connector: J12 SP IN**

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

**k. USB Ports**

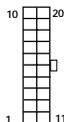
The mainboard provides a **UHCI(Universal Host Controller Interface) Universal Serial Bus root** for attaching USB devices like: keyboard, mouse and other USB devices. You can plug the USB device directly to this connector.



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

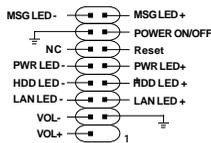
**Warning:** Since the mainboard has the instant power on function, make sure that all components are installed properly before inserting the power connector to ensure that no damage will be done.

**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.