

PM-1057

PC/104 Plus Serial ATA & USB 2.0 Module



PM-1001

PC/104 Plus PCI to ISA Bridge Module



Single Board Computer

PIAGP Series

PICMG

Half-Size

Industrial Motherboard

5.25" NOVA

EPIC NANO

3.5" WAFER

ETX

PC/104

Add-on Card

IVC Card

Backplane

LCD Product Series

Chassis

Power supply

Peripheral

Specifications

- ◆ PC/104 Plus form factor
- ◆ 4 x Serial-ATA (Sil3114)
- ◆ 2 x USB 2.0 (VT6202)
- ◆ Use pin-header for PCI master selection

Specifications

- ◆ PC/104 Plus standard form factor
 - ◆ IT8888F PCI to ISA bridge
 - ◆ PCI 2.1 compliant
 - ◆ Support 32-bit PCI bus up to 33MHz
- Note: PM-1001 only support Intel chipset

Ordering Information

- **PM-1057**
PC/104 Plus Four Serial ATA and USB 2.0 Module

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- **PM-1001**
PC/104 Plus PCI to ISA Bridge Module

Tech Talk

Serial-ATA

Serial ATA is a new way of connecting your storage devices. For example, you are all used to the way we connect IDE devices to the motherboard. We have a wide 40/80 pins wire plugged into both the motherboard and the storage device. These wires are big and bulky and often get in the way of a lot of other components inside the chassis. They are also based on Parallel data transmission which sends data in parallel, causing interference with other signals. Serial connectors only have a send and receive, causing much less problems in that respect. The features of Serial-ATA is as below:

- ◆ Compact design of only 7-pin data cable.
- ◆ Supports up to a maximum transmission distance of 100CM
- ◆ High speed transmission rate from 150MB (V1.0) to 600MB (V3.0)
- ◆ Supports Plug & Play
- ◆ Supports RAID 0, 1

Benefits of Serial ATA

Serial ATA offers a number of benefits over Parallel ATA, including:

- ◆ Reductions in voltage and pin count
- ◆ Smaller, easier-to-route cables; longer cable-length limitation
- ◆ Improved data robustness
- ◆ Backward compatibility

	Parallel ATA	Serial ATA
Bandwidth	100/133 MB/Secs	150/300/600 MB/Secs
Volts	5V	250mV
Pins	40	7
Length Limitation	18 inch (45.72cm)	1 meter (100cm)
Cable	Wide	Thin
Ventilation	Bad	Good
Peer-to-Peer	No	Yes