

PM-1057

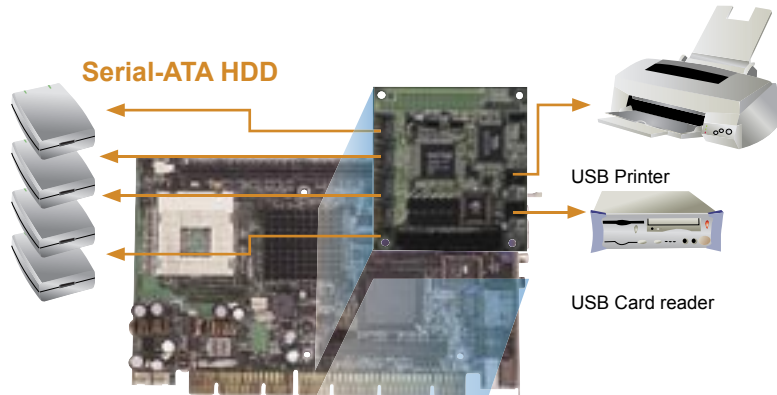
PC/104 Plus Serial ATA & USB 2.0 Module

PC/104 Products



PM-1057

IEi's PM-1057 PC/104 plus module is implemented with Serial-ATA and USB 2.0 as a high speed translation and transmission interface. It is designed for compensating IDE interface instead of Serial-ATA such as NOVA-EDEN-733 or PSB-4710EV series SBC during the new technology exchange stage. Furthermore, the data can be easily delivered via USB 2.0 high speed interface which is benefited for peripheral storage or access points.



PSB-4710

SPECIFICATIONS

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

ORDERING INFORMATION

- ◆ **PM-1057** PC/104 plus 4-channel Serial-ATA & USB 2.0 module
- ◆ **CB-USB-02** Dual port USB cable

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

PM-1001

PC/104 Plus PCI to ISA Bridge Module



PM-1001

PC/104 Products

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-1001** PC/104 plus PCI to ISA bridge module