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Find the *Abaco Systems / SBS PMC-3104-FP* at our website: *Click HERE*

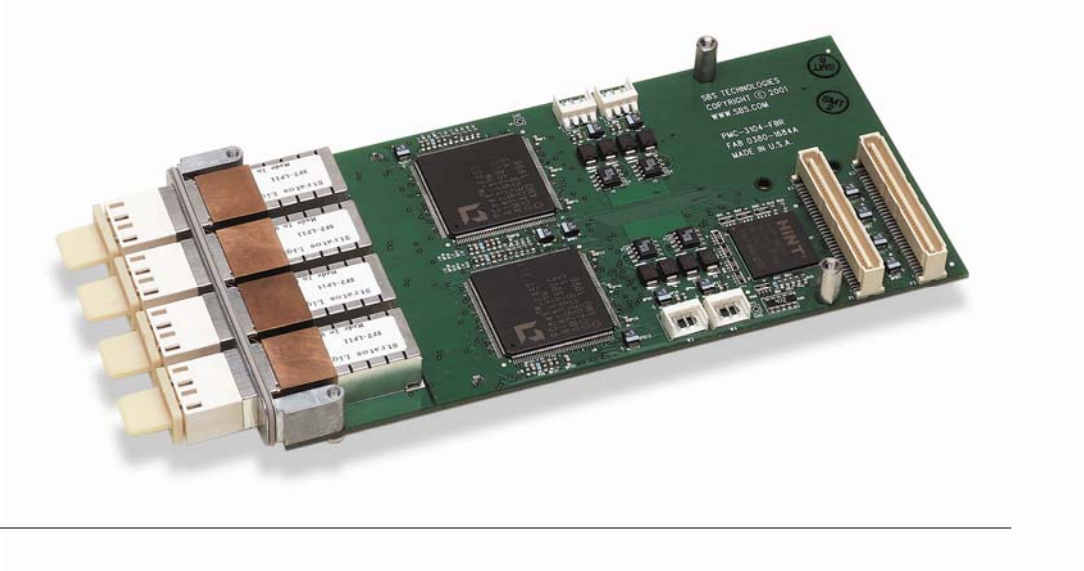
PMC-3104-FP/-FBR

Quad 10/100 Fast Ethernet PMC

I/O & Communications

Features

- Four 10BaseT/100BaseTX or 100Base-FX Ethernet ports (ordering option)
- Front-panel I/O via RJ45 or LC (fiber option) connectors
- Auto-negotiating protocol selection
- Single-wide PMC form factor
- Can be configured as fault tolerant links
- 12 KB total FIFO per port, programmable and RX operation
- Supports port aggregation and load balancing in Windows NT 4.0
- Capable of remote monitoring of components and parameters through Serial Management Interface
- Wake-on-LAN for all ports



PMC-3104-FP and PMC-3104-FBR are multi-port Network Interface Cards (NICs) for PMC (PCI Mezzanine Card) expansion in CompactPCI®, VMEbus, and other embedded computer applications.

The Ethernet network interface complies with the IEEE 802.3 specification for 10BaseT, 100BaseTX, and 100Base-FX. Both full-duplex and half-duplex modes are supported.

The PMCs provide four independent high-performance Fast Ethernet interface controller ports on a single-wide PMC. PMC-3104-FP supports universal twisted pair (UTP) media through standard front-panel RJ45 connectors. PMC-3104-FBR allows interfacing to 100 Mb/s fiber network topologies using LC connections on the PMC front panel.

The PMC-3104 four AMD AM79C975 Pcnet-FASTIII Ethernet controllers feature dual-speed (10BaseT and 100BaseTX) auto-detection CSMA/CD Media Access Controllers (MACs). Port aggregation and dynamic load balancing are supported with PermaNet server running Windows NT® 4.0. To protect against link failures, two ports can be configured as primary and secondary links. With aggregation of the four ports, bandwidth for outgoing traffic can increase from 100 Mb/s to 400 Mb/s.

The Ethernet controllers support the physical interface via a built-in Physical Layer Interface Unit that supports sophisticated features such as auto-negotiation, collision detection, link detection, and for 100BaseTX, Physical Coding Sublayer, Physical Medium Attachment, and Physical Medium Dependent Functionality. The controllers also support 100Base-FX with the PECL interface to a fiber-optic transceiver module.

PMC-3104 addresses a variety of carrier-class, industrial, and military COTS applications requiring quick, easy expansion of 10/100 Mb Ethernet capability and PMC form factor.

Drivers are available for VxWorks®, Windows NT® 4.0, and Linux® operating systems.

PMC-3104-FP/-FBR



Specifications

PMC Conformance
- Single-wide PMC
- 32-bit PMC Specification IEEE P1386.1

PCI Interface
- 32-bit, 33 MHz master & slave
- 3.3/5V signaling
- PCI Specification, Rev. 2.2

PCI Controller
- HINT HB1-SE33

Number of Ports
- 4 independent ports

Ethernet Controllers
- AMC79C975

Protocols
- Ethernet 10 /100BaseTX or Ethernet 100Base-FX (ordering options)

Front Panel I/O
- Four RJ45 or LC (ordering options)

Dimensions
- 74.0 mm x 149.0 mm

Weight
- 0.10 kg (0.20 lb)

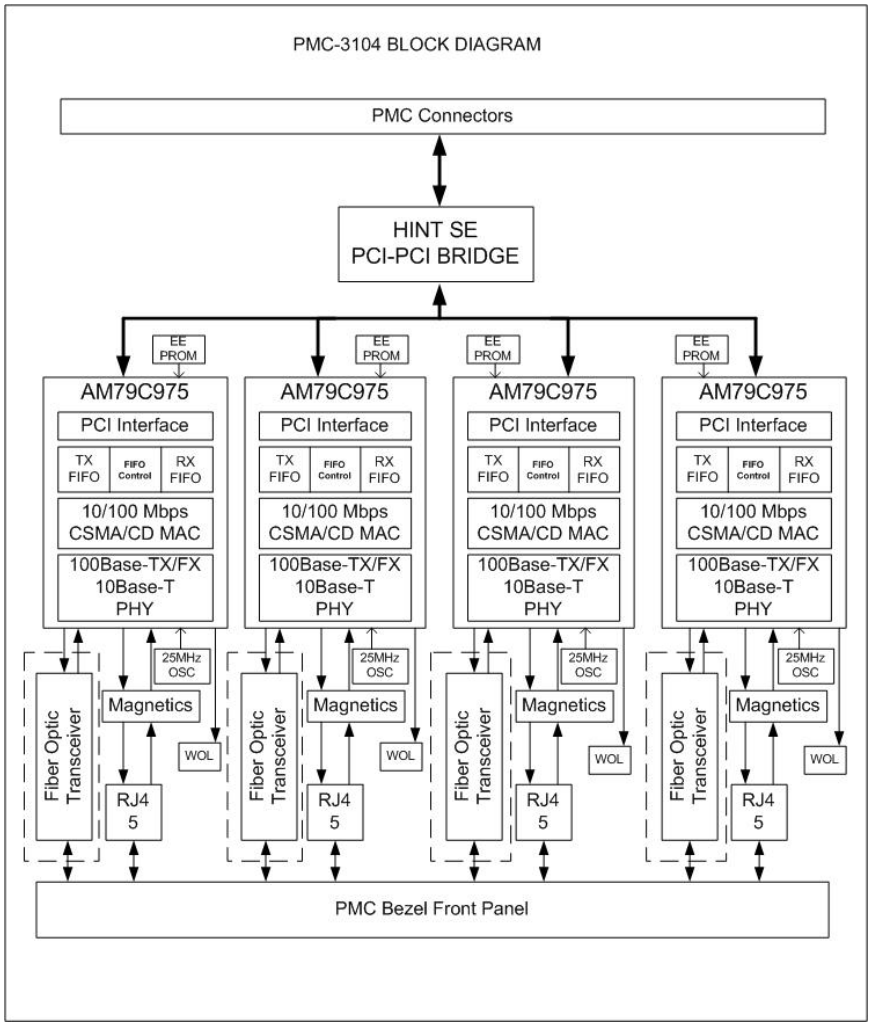
Power Requirements: -FP
- +5 VDC, 600-1250mA typical
- +3.3 VDC, 50mA typical

Power Requirements: -FBR
- +5VDC, 1900mA typical
- +3.3 VDC, 50mA typical

Temperature
- Operating: 0° to +70° C
- Storage: -40° to +85° C

Humidity
- 5% to 95% non-condensing

Block Diagram



Ordering Information

PMC-3104-FP	For 10BaseT/100BaseTX auto-negotiating Fast Ethernet ports, front panel RJ454
PMC-3104-FBR	Four 100Base-FX fiber ports, front-panel LC connectors
PMC-3104-BP2	Four 10BaseT/100BaseTX auto-negotiating Fast Ethernet ports, back-panel I/O

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