



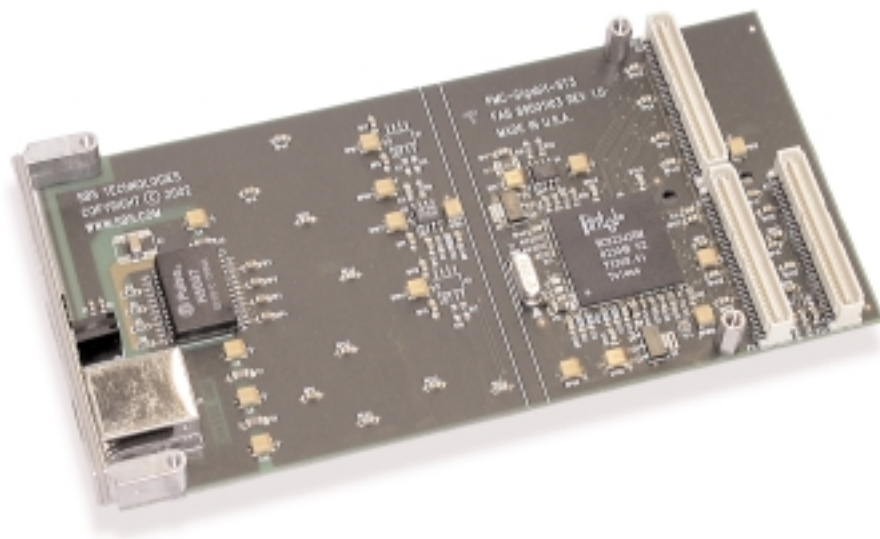
PMC-Gigabit-ST3

PMC with One 1000BaseT/100BaseTX/
10BaseT Gigabit Ethernet Interface

I/O &
COMMUNICATIONS

Features

- 10BaseT/100BaseTX/1000BaseT network interface card
- Single-wide 32/64-bit 33/66 MHz PCI, 66/133 MHz PCI-X PMC
- LED indicators for link, speed, and activity
- Auto-negotiating protocol selection
- Transmit and receive FIFOs
- Drivers for VxWorks®, Linux® and Windows NT® available
- Supports Jumbo frames



PMC-Gigabit-ST3 is a single-wide PCI Mezzanine Card (PMC) with one high-performance Gigabit Ethernet interface controller port. The PMC-Gigabit-ST3 relieves bandwidth bottlenecks and allows rapid incorporation of Gigabit Ethernet technology into high-performance CompactPCI® and VMEbus systems.

The Ethernet interface complies with the IEEE802.3 specification for 10BaseT, 100BaseTX, and 1000BaseT over category 5 twisted pair cable. Full-duplex and half-duplex modes are supported. The PMC-Gigabit-ST3 is compliant with standard single-wide PMC IEEE P1386.1, PCI 2.2, and PCI-X 1.0 specifications.

The PMC-Gigabit-ST3 includes 64 Kbytes of FIFO buffer memory allowing back-to-back transmissions with minimal interface latency. It also features a 10BaseT, 100BaseTX and 1000BaseT auto-detection CSMA/CD interface controller.

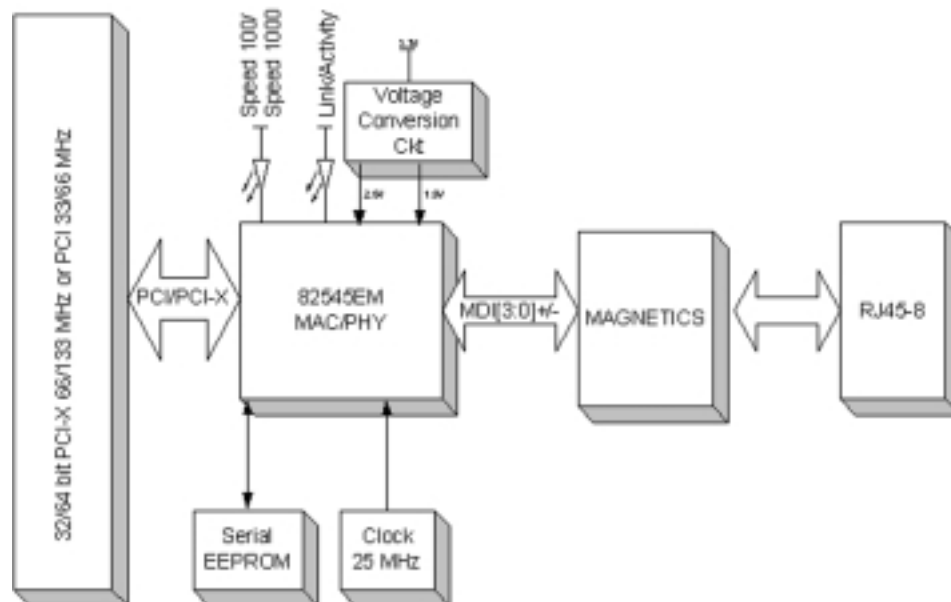
The Intel® 82545EM Ethernet chip provides integrated low-powered MAC/PHY functionality and supports a number of sophisticated features including: auto-negotiation, collision detection, link detection, 4B/5B encoding/decoding (100BaseTX), flow control, and half-duplex/full-duplex. Standard network connection is accomplished via a front-panel RJ45 connector.

PMC-Gigabit-ST3 addresses applications requiring high-bandwidth system interconnection and PMC form factor, such as, industrial automation, semiconductor processing, medical, server and enterprise, security, printing, entertainment, retail point-of-sale, data communications, LAN/WAN, and telecommunications applications.



PMC-Gigabit-ST3

Block Diagram



Specifications

Technical Highlights

- Single-wide PMC; one port
- 64-bit PMC Specification IEEE P1386.1 compliant
- Intel® 82545EM PCI controller/Ethernet MAC/PHY
- Ethernet 10BaseT, 100BaseTX, 1000BaseT protocols
- Transmit/receive FIFOs with 64 KB total

PCI Interface

- 66/133 MHz PCI-X bus
- PCI-X 1.0 specification
- 33/66 MHz, 32/64-bit, master and slave, 3.3V/5V signaling
- PCI Protocol and Electrical Rev. 2.2

Front Panel I/O Access

- One RJ45 connector

Rear Panel I/O Access (P4)

- None

Power Requirements

- +3.3 VDC at 1180 mA (typical)

Temperature

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

Relative Humidity

- 5% to 95% non-condensing

Weight

- 0.07kg (0.16 lbs)

Dimensions

- 74.0 mm x 149.0 mm

Configurations

| Model Number | Configuration |
|-----------------|--|
| PMC-Gigabit-ST3 | PMC with one copper Gigabit Ethernet Interface |

Corporate Headquarters

2400 Louisiana Blvd. NE, #5-600
Albuquerque, NM 87110-4316
Tel 505.875.0600 Fax 505.875.0400
Email info@sbs.com

European Headquarters

Memminger Str. 14
D-86159 Augsburg, Germany
Tel +49-821-5034-0 Fax +49-821-5034-119
Email sales@sbs-europe.com

For additional contact information, please visit our web site at www.sbs.com

Specifications subject to change without notice. All trademarks and logos are property of their respective owners.
©2002 SBS Technologies, Inc. 20021101

