

EM440

PCI Quartet™

10/100

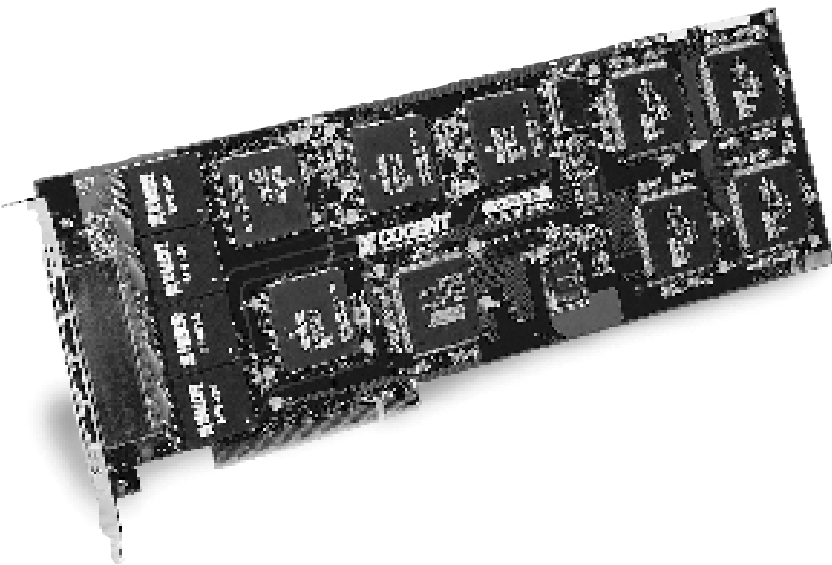
Fast Ethernet

LAN Adapter

PCI Quartet/440

Features

- Supports 10 Mbits/sec. system throughput for IEEE 802.3 10BASE-T networks
- Supports 100 Mbits/sec. system throughput for IEEE 802.3u 100BASE-T4 networks
- Full Duplex 20 Mbits/sec. on 10BASE-T supports cumulative 80 Mbits/sec. system throughput
- NWAY compatible AutoSensing of maximum line speed
- Easy migration from 10BASE-T to 100BASE-T4 Fast Ethernet
- Runs on Category 3, 4, or 5 UTP cable for maximum compatibility
- 132 MBytes/sec. burst data rate across the PCI bus for maximum performance and low CPU utilization
- Self-configuring design for "plug and go" operation
- Integrated 2 KByte transmit and 4 KByte receive FIFOs (First In, First Out memory) on each channel
- Predictive Pipelining™ for greater throughput with lower CPU utilization
- All popular networks supported
- Comprehensive setup and diagnostics utility
- Limited lifetime warranty



EM440

Quartet/440 is the ultimate performance adapter for PCI servers on 100 Mbit/sec. Fast Ethernet networks. With four channels on a single board and support for voice grade CAT 3 UTP cabling, Quartet/440 has the features today's 32-bit Fast Ethernet servers need to handle the most demanding networks. Quartet/440 can support up to four network segments on separate channels— for cumulative throughput of **400 Mbits/sec.** This high speed adapter multiplies flexibility, performance and cabling compatibility **by four** to provide the easiest migration possible from 10BASE-T to 100BASE-T4 Fast Ethernet.

PCI Quartet™ 10/100 Fast Ethernet LAN Adapter

AutoSense configuration provides flexibility

The AutoSense feature of Quartet/440 allows the adapter to detect the maximum line speed of your network automatically. Simply connect the Quartet/440 into any existing 10BASE-T or 100BASE-T4 network device of any speed; no adapter configuration is necessary. For maximum flexibility, this AutoSense feature is compatible with all 10 and 100 Mbits/sec. devices, including those without NWAY line speed negotiation.

Category 3 UTP support provides low-cost upgrade

T4 support means that you don't have to upgrade your cabling plant. Quartet/440 will run on the voice grade cable you are currently using for 10BASE-T. Run the Quartet/440 now at 10 Mbits/sec., or 20Mbits/sec. Full Duplex, and in the future run at 100 Mbits/sec. using the same adapter and the same cable.

Design innovation for Fast Ethernet

Quartet/440 moves large amounts of data across multiple network segments simultaneously using a combination of high throughput and low CPU utilization. Independent 2 KByte transmit and 4 KByte receive FIFOs (First In, First Out memory) on-board for each channel, and powerful DMA capability mean that Quartet/440 can handle increased bus latencies with decreased sensitivity to load.

Quartet/440 uses an on-board PCI-to-PCI bridge to extend the machine's internal PCI bus. This easy-to-use design is like having the power of four Fast Ethernet adapters, all operating at full cable bandwidth within your system, while using only one slot.

Cogent offers Ethernet products to meet every adapter and repeater environment, including 10BASE-2, 10BASE-T, 100BASE-TX, 100BASE-T4, and 100BASE-FX (fiber).

Product Specifications

Systems Supported

PCI Local Bus servers, based on Intel, DEC Alpha, MIPS, and PowerPC processors

Bus Interface

PCI, 32-bit bus master

Ethernet Controller

DECchip® 21140 LAN coprocessor chip

Hardware Interrupts

PCI interrupt A
supports shared interrupts

Base IO or Memory Address

Assigned by BIOS

PCI Configuration Space

Supports DWORD, WORD, and BYTE access

Reliability

Calculated MTBF > 100,000 hours

Power Requirements

+5 volts @ 3.5 Amp. max.

Environmental Operating Range

Temperature: 0°C to 50°C
Relative Humidity: 5% to 85% non-condensing
Altitude: 3000m maximum

Interface Connections

RJ-45 female (4)
supports CAT 3, 4, and 5 UTP and STP Type 1 cabling

Dimensions

12" x 4.2" (conforms to PCI Long Card specification)

Standards Compliance

IEEE 802.3u 10BASE-T
IEEE 802.3u 100BASE-T4

Drivers Available

3.5" diskette
NetWare 3.x, 4.x, IBM LAN Server, OS/2 Warp, Windows NT for Intel, DEC Alpha, MIPS, and PowerPC

Diagnostic LEDs

Link Integrity for each channel
Network Activity for each channel

Warranty

All eMASTER+ series adapters are protected by a limited lifetime warranty

Ordering Information

Order Number	Connectors
EM440	RJ-45 (4)

Made in U.S.A.

Your local Cogent dealer is:

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