



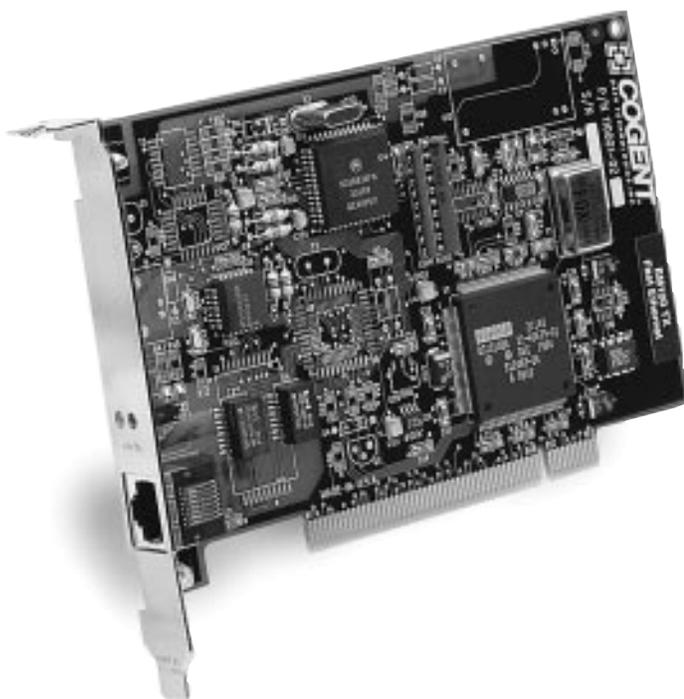
EM100 TX Fast Ethernet Adapters

Fast Ethernet

EM100 TX ISA, EISA and PCI Adapters

- Support for 100 Mb/s/sec. IEEE 802.3u 100BASE-TX standard
- Low-cost, single-speed design targeted at Fast Ethernet-only Networks
- Predictive Pipelining™ for greater throughput with lower CPU utilization

- All popular networks supported
- Comprehensive setup and diagnostics utility
- Self-configuring design for easy setup
- Limited lifetime warranty



Additional features for ISA models

- SMC 91C100 FEAST Fast Ethernet controller
- Integrated 128 KByte packet buffer for increased performance
- Optional support for "Plug and Play"
- Optional universal boot PROM (RPL)
- I/O mapped architecture to prevent RAM consumption

Additional features for EISA models

- SMC 91C100 FEAST Fast Ethernet controller
- Integrated 128 KByte packet buffer for increased performance
- DMA burst mode transfers
- Fully software configurable, includes EISA configuration file

Additional Features for PCI models

- DECchip® 21140 LAN coprocessor chip
- Full Duplex capability for up to 200 Mb/s/sec. performance
- 132 MBytes/sec. burst data rate across the PCI bus for maximum performance
- Self-configuring design for "plug and go" operation
- Integrated 2 KByte transmit and 4 KByte receive FIFOs (First In, First Out memory)

TX

EM110 TX 10/100 Fast Ethernet Adapters

EM110 TX Fast Ethernet adapters, designed for PCI, EISA and ISA servers and workstations, are the fastest way to connect to 10 Mbts/sec. and 100 Mbts/sec. Fast Ethernet networks. These high speed adapters combine flexibility, and performance to provide easy migration from 10BASE-T and 10BASE-2 to 100BASE-TX Fast Ethernet.

The Combo Option - Universal Connectivity and Upgrade Path

The EM110 TX Combo achieves universal cable connectivity by providing a BNC coax connector. You can connect to your old coax network now, and still be prepared for the eventual upgrade to Fast Ethernet.

AutoSense configuration provides flexibility

The AutoSense feature of EM110 TX allows the adapter to detect the maximum line speed of your network automatically. Simply connect the EM110 TX to any existing 10BASE-T or 100BASE-TX network device; no adapter configuration is necessary. For maximum flexibility, this AutoSense feature is compatible with all 10 and 100 Mbts/sec. devices, including those without NWAY line speed negotiation.

High bandwidth networking

Ten times faster than traditional 10 Mbts/sec. Ethernet adapters, EM110 TX Fast Ethernet is ideal for resource-intensive graphics, multimedia, Microsoft Windows, and mission-critical applications which need high throughput and low CPU utilization to power large amounts of data across the network.

For maximum performance, EM110 TX (PCI only) includes both 10 Mbts/sec. FDE and 100 Mbts/sec. FDFE Full Duplex capability which doubles the cumulative system throughput rate. Full Duplex capability is easily enabled via software configuration.

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 computers, based on Intel, DEC Alpha, MIPS, and PowerPC processors.
ISA and EISA bus computers based on Intel processors

Bus Interface

ISA, 16-bit I/O mapped
EISA, DMA burst mode transfer
PCI, 32-bit bus master

Ethernet Controller

DECchip® 21140 LAN coprocessor chip (PCI)
SMC 91C100 FEAST Fast Ethernet Controller (ISA and EISA)

Hardware Interrupts

PCI interrupt A, supports shared interrupts (PCI) 5, 9, 11 & 15, supports shared interrupts (EISA) "Plug and Play," or interrupts 5, 9, 11 & 15 (ISA)

Base I/O or Memory Address

Assigned by BIOS (PCI)
Automatically Configured (EISA)
Assigned by "Plug and Play," or manually (ISA)

PCI Configuration Space

Supports DWORD, WORD, and BYTE access

Reliability

Calculated MTBF >100,000 hours

Power Requirements

+5 volts @ 1.5 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
supports CAT 5 UTP and Type 1 STP for 100BASE-TX, supports Cat 3, 4 and 5 UTP for 10BASE-T
BNC connector
supports RG-58 coax for 10BASE-2

Dimensions

5.075" x 3.9" (conforms to PCI Short Card specification)
7.6"x 4.2" (EISA)
7.3"x 4.2" (ISA)

Standards Compliance

IEEE 802.3 10BASE-2
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
FCC A, CE A (ISA/EISA)
FCC B, CE B (PCI)

Full Duplex Support

PCI Models:
10BASE-T
100BASE-TX

Drivers Available

3.5" diskette
NetWare 3.x, 4.x, NetWare Lite, Personal NetWare, LAN Manager, VINES, OS/2 Warp, IBM LAN Server, Artisoft LANtastic, Windows for Workgroups, DEC PATHWORKS for DOS, FTP PC/TCP, LAN Workplace for DOS, Windows NT for Intel, DEC Alpha, MIPS, PowerPC, Windows 95, Windows for Workgroups 3.11

Diagnostic LEDs

Link Integrity (one each for 10 Mbts/sec. & 100Mbts/sec.)
Network Activity (one each for 10 Mbts/sec. & 100 Mbts/sec.)

Warranty

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

Ordering Information

Order Number	Connectors
EM110TX-PCI	RJ-45
EM110TX-PCI-C	RJ-45, BNC
EM110TX-EISA	RJ-45

Cogent Sales

15375 SE 30th Place, Suite 310
Bellevue, WA 98007 U.S.A.
Tel (206) 603-0333
Toll-free in U.S. 1-800-426-4368
Fax (206) 603-9223
E-mail sales@cogentdata.com

Cogent Corporate

640 Mullis Street
Friday Harbor, WA 98250 U.S.A.
Tel (360) 378-2929
Fax (360) 378-2882
URL <http://www.cogentdata.com>

Cogent Europe

Rosenstraße 7
80331 Munich Germany
Tel [49] 89/231138-88
Fax [49] 89/231138-11

