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Find the *Adaptec / Cogent Data Technologies EM100 FX* at our website: *Click HERE*

EM100 FX Features

- 100BASE-FX Standard
- DECchip 21140 LAN coprocessor chip
- Takes full advantage of 133 Mbits/sec. PCI bus mastering
- Full flexibility, with both ST (twist-on) and SC (push-on) connectors available
- Predictive Pipelining for greater throughput with lower CPU utilization
- Full Duplex Fast Ethernet (FDFE) capability for up to 200 Mbits/sec performance
- Cabling distances of up to 400 meters in half-duplex and 2 kilometers in Full Duplex
- All popular networks supported
- Comprehensive setup and diagnostics utility
- Limited lifetime warranty

EM100 FX is the first Fast Ethernet PCI adapter to support the IEEE 100BASE-FX (fiber optic cabling) standard. The fiber optic interface makes EM100 FX ideal for use in electrically noisy environments such as building risers and factory floors, and also in backbone environments where longer cabling distances are required. For maximum throughput, EM100 FX includes Full Duplex Fast Ethernet (FDFE) capability which doubles the cumulative system throughput rate in switched or dedicated backbone environments. FDFE capability is easily enabled via software configuration.

Extended distance with familiar technology

Using the familiar Fast Ethernet standard, EM100 FX can extend networks to 400 meters in Half Duplex, and 2 kilometers in Full Duplex (200 Mbits/sec), mode. EM100 FX lets you leverage the large bandwidth and distance potential of fiber optic cabling using the same Ethernet packets you are already using; costly FDDI to Ethernet protocol translations are no longer necessary.

Connector Options

The EM100 FX achieves universal fiber optic cable connectivity by providing either an ST (twist-on) connector, for preexisting fiber optic cable and connectors, or the newer SC (push-on) connector, for newer cable installations. Both interfaces use the same multimode fiber cabling and support Full Duplex operation.

High bandwidth networking

Ten times faster than traditional 10 Mbits/sec Ethernet adapters, EM100 FX 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.

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

Bus Interface
PCI, 32-bit bus master

Ethernet Controller
DECchip 21140 LAN coprocessor chip

Hardware Interrupts
PCI interrupt A, supports shared interrupts

Base I/O 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 @ 1.5 Amp max

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

Maximum Cabling Distance
400 meters half-duplex
2 kilometers Full Duplex

Interface Connections
Supports 62.5/125 micron multimode fiber ST (twist-on) SC (push-on)

Dimensions
5.075" x 3.9" (conforms to PCI Short Card specification)

Standards Compliance
IEEE 802.3u 100BASE-FX

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
Network Activity

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

Ordering Information

Support Resources
- Support Updates on Twitter
- TSID Importance
- Register My Product
- Support Options
- Contact Support
- RMA Information
- Compatibility Report

Order Number	Connectors
EM100 FX PCI ST	ST
EM100 FX PCI SC	SC

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