

# ADAPTEC<sup>®</sup>

## Cogent<sup>™</sup> PCI Ethernet LAN Adapters

Superior performance for 10 Mbps standard Ethernet



### PRODUCT HIGHLIGHTS

- 132 MByte/sec (33 MHz) burst data rate across the PCI bus
- Predictive Pipelining<sup>™</sup> for greater NetWare throughput with lower CPU utilization
- Self-configuring design for Plug-and-Go operation
- Full Duplex support for 20 Mbps throughput in switched environments
- Drivers for all popular network operating systems

### Overview

Adaptec's Cogent ANA<sup>™</sup>-6901 and ANA-6901 Combo 32-bit, bus mastering adapters for PCI servers and workstations provide fast and trouble-free connections to Ethernet networks. With processor-independence, very large scale integration (VLSI) design, CPU independence, and 132 MByte/sec bus speed, the ANA-6901 and ANA-6901 Combo bring Adaptec's low-cost PCI performance to your Ethernet network.

### Key Features and Benefits

#### Performance through advanced design

The ANA-6901 and ANA-6901 Combo adapters provide your graphics, multimedia, and Windows<sup>®</sup> applications with the high throughput and low CPU utilization needed to power large amounts of data across the campus, or around the world.

With two 256 byte independent transmit and receive FIFOs (First In, First Out) on-board, and powerful DMA (Direct Memory Access) capability, the ANA-6901 and ANA-6901 Combo adapters continue to deliver high performance during the busiest network activity periods.

#### Full Duplex Mode

For even greater throughput, the ANA-6901 and ANA-6901 Combo adapters provide Full Duplex Ethernet (FDE) capability through easily configurable software drivers. This feature effectively doubles the cumulative system throughput rate in switched Ethernet networks. These adapters have completely independent transmit and receive circuitry for true 20 Mbps operation. Full Duplex Ethernet servers using Full Duplex adapters handle receive and transmit requests simultaneously. As a result, workstations take advantage of faster service.

#### Flexible Configuration

In addition, these adapters are self-configuring. For maximum convenience, base configurations are automatically set in the adapters' BIOS. The adapters also support manual configuration with any system that offers parameters through the PCI BIOS.

System flexibility is further maximized by allowing PCI configuration registers to be mapped to either I/O space or memory. By providing flexibility in how the registers are accessed, the ANA-6901 and ANA-6901 Combo adapters make it easy to avoid conflicts with existing resources. These adapters also support DWORD, WORD, and BYTE access to configuration space.

## Cogent-to-Adaptec Model Number Conversion Chart

### Cogent Ethernet

New Model #	Previous Model #	Bus	Speed	Interface
ANA-6901 Combo	EM960C	PCI	10 Mbps	RJ-45, BNC, AUI
ANA-6901	EM960TP	PCI	10 Mbps	RJ-45

### TECHNICAL SPECIFICATIONS

<b>Systems Supported:</b>	PCI local bus computers based on Intel, DEC Alpha, MIPS, and PowerPC processors
<b>Bus Interface:</b>	PCI, 32-bit bus master
<b>Ethernet Controller:</b>	DECchip LAN coprocessor chip
<b>FIFO Buffer Memory:</b>	256 Byte transmit 256 Byte receive
<b>Hardware Interrupts:</b>	PCI interrupt A, supports shared interrupts
<b>Base IO or Memory Address:</b>	Assigned by BIOS
<b>Reliability:</b>	Calculated MTBF>100,000 hours
<b>Power Requirements:</b>	+5 volts @ 0.5 Amp. max. +5 volts @ 1 Amp. max. (ANA-6901 Combo only) +12 volts @ 0.5 Amp. max. (for MAU only)
<b>Environmental Operating Range:</b>	Temperature: 0 C to 50 C
<b>Relative Humidity:</b>	5% to 85% non-condensing
<b>Altitude:</b>	3000m max.
<b>Interface Connections:</b>	Combo: BNC, RJ-45 female Twisted Pair: RJ-45 female Full Duplex support on RJ-45
<b>Dimensions:</b>	5.075" x 3.9" (conforms to PCI Short Card specifications)
<b>Standards Compliance:</b>	FCC Class B CE Class B IEEE 802.3 10Base-2 IEEE 802.3 10Base-5 IEEE 802.3 10Base-T
<b>Drivers Available:</b>	3.5" diskette - Novell NetWare 3.x, 4.x, and SFT III, DOS ODI Client, Windows for Workgroups (NDIS 3.0), Windows® 95, Windows NT™ for Intel, DEC Alpha, PowerPC, and MIPS platforms, DOS NDIS (NDIS 2.0), OS/2 Warp (NDIS 2.0), MS LAN Manager, Artisoft LANtastic, Banyan VINES DOS client, FTP PC/TCP, DEC PathWorks, Sun Solaris, NEXTSTEP, SCO Open Desktop/Open Server
<b>Diagnostic LEDs:</b>	Link Integrity, Network Activity
<b>Warranty:</b>	Adaptec's Cogent adapters are protected by a limited lifetime warranty



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**Literature:**  
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or (510) 732-3829

**Ordering Software:**  
1-800-442-7274 (USA and Canada)  
or (408) 957-7274

**World Wide Web:**  
<http://www.adaptec.com/networking>

**Internet ftp server:** [ftp.adaptec.com](ftp://ftp.adaptec.com)

**CompuServe:** GO ADAPTEC

**Microsoft® Network:** GO ADAPTEC  
**Adaptec USA Bulletin Board Service (BBS):**  
(408) 945-7727 (up to 28,800 bps,  
using 8 bits, 1 stop bit, no parity)

**Interactive Fax:** (408) 957-7150

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