

## Dual Port Ethernet Controller

### Model CEI-2000



The CEI-2000 is an Ethernet adapter for NuVAX and NuPDP systems. It can emulate the function of Digital's popular Ethernet controllers to enable higher-level software protocols, such as DECnet and TCPIP, to communicate over an Ethernet network. The CEI-2000 provides two Ethernet ports while occupying a single option slot.

The CEI-2000 conforms with the IEEE Specification 802.3 for Local Area Networks:

- Transmit/receive data at 10 or 100 Mbits/sec.
- Perform packet serialization, formatting, Manchester encoding, and multiple retransmission.
- Generate and check a 32-bit CRC for each packet.
- Interface with the Ethernet transceiver.
- Perform DMA transfers to and from host memory.

User connection to the CEI-2000 is via standard category-5 Ethernet cables. In addition, the CEI-2000 works with both 3.3V and 5V PCI buses, allowing the board to be installed in any available PCI slot of a NuVAX or NuPDP system.

### Features

- Compatible with Digital's DELQA, DEQNA, and DELUA Ethernet adapters.
- Provides two Ethernet ports.
- Provides high performance and reliability.

### Ordering Information

CEI-2000-AA	Dual-port PCI DELQA Ethernet controller.
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## Specifications

Dimensions	16.5cm x 6.4cm (6.6 in by 2.5 in)
Connectors	Two RJ45
Wiring	Cat-5, 4-pair
Onboard Memory	128 Kb
Cable Distance	Up to 100m
Interrupt Levels	INTA
Data Rate	10 and 100 Mbps
Data Transfer Mode	Bus-master DMA
<b>IEEE</b>	
IEEE Support	802.3ab
IEEE Standard	10BASE-T, 100BASE-T
<b>Electrical</b>	
Power Required:	1.0 amp @ 5.0 V, typical ±12 volts not used
<b>PCI Local Bus</b>	
Signaling	3.3 and 5 volt
Addr/Data	32-bit
Clock Rate	33 MHz
Compliance	2.1
<b>Environmental</b>	
Operating Conditions:	
Temperature	0° to 40°C (50° to 104°F)
Relative Humidity	85% at 55°C
Storage Conditions:	
Temperature	-40° to 60° C (-40° to 140° F)
Relative Humidity	10% to 90% non- condensing