

TEXT,C,55

PCMCIA ETHERNET 10BASE-T & 10BASE2

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Card Supports both 10BASE-T Twisted Pair and 10BASE2 Thin Coax

PCMCIA-The Emerging Portable Computing Standard

The latest generation of portable computer systems offers improved flexibility and convenience by including slots for PCMCIA (Personal Computer Memory Card International Association) adapters.

These tiny credit-card sized adapters represent the emerging standard for easily adding options to personal computers. For networking of portable PCs, PCMCIA cards offer size, ease of installation and performance advantages over more traditional docking stations and parallel port adapters.

Flexible Ethernet Connectivity

The Ethernet PCMCIA Adapter attaches to a LAN using a Media Coupler with either an RJ-45 or a BNC connector. The 6 inch cable on the Coupler plugs into a connector on the PCMCIA Adapter.

The Coupler's LEDs indicate status of network connection.

Two Media Couplers are offered to satisfy different needs:

- \* Twisted Pair (RJ-45) Coupler - for 10BASE-T twisted pair LANs.
- \* Coax (BNC) Coupler - for 10BASE2 Thin Coat LANs.

The PCMCIA Adapter delivers maximum reliability and performance through the use of National Semiconductor's industry-standard Serial Network Interface Controller for Twisted Pair (ST-NIC) and PCMCIA interface chips.

Performance Options

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The Ethernet PCMCIA Adapter can operate in two data transfer modes - Shared Memory or Programmed I/O. A user selects the desired data mode using the installation software.

The PCMCIA interface chip is optimised for maximum performance (fastest packet throughput and minimum bus utilisation) in the Shared Memory mode. The shared memory transfer can be programmed for zero wait state operation.

Alternatively, to eliminate computer system memory use, the Credit Card Adapter can be used in Programme I/O mode.

#### Double Construction

PCMCIA cards are handled often, so they must be durable. The Ethernet PCMCIA Adapter is constructed using rugged stainless steel and laser welding to ensure durability. Locking tabs on the Media Coupler connectors prevent accidental disconnection.

#### Industry Compatibility

A Socket Services enabler and hardware-specific enablers are provided to let the card operate in various PCMCIA-capable PCs. Contact Compex for a current list of PCs and Socket Service programs for which the card has been proven.

#### Features

- \* Supports popular network software, such as NetWare, LAN Manager, LAN Server, VINES, and PC/TCP.
- \* Shipped with DOS ODI and NDIS drivers, enablers, installation program and separate diagnostics.
- \* Operates with ExCa slots.
- \* Cover/frame ground compliant with PCMCIA recommended grounding.
- \* 64Kb (optional 128Kb) Flash Memory allows future storage of drivers on-card.
- \* The Adapter auto-configures for twisted pair or coax according to the Media Coupler used.
- \* Twisted Pair Media Coupler provides automatic polarity detection and correction.

#### Technical Specifications

Twisted Pair Ethernet

Network Interface Standards IEEE 802.3 10BASE-T  
Network Connectors RJ45 Female

Cable Type            AWG 22,24,26  
                           Unshielded Twisted Pair  
                           (UTP)  
 Operating Distance    100 (328') Maximum  
                           Hub to Node Length  
 Hub Compatibility     All 10BASE-T  
 Diagnostics LEDs     Link Status, Traffic  
 Power Use            0.8 Watts typical;  
                           1.2 Watts maximum

Thin Coax Ethernet

Network Interface Standards IEEE 802.3 10BASE2  
 Network Connectors   Isolated ground BNC  
 Cable Type            RG58 A/U or C/P 50  
                           Coaxial Cable  
 Operating Distance    300m (100') Max.  
                           Segment Length  
 Hub Compatibility     n/a  
 Diagnostic LEDs       Traffic  
 Power Use            2.2 Watts typical;  
                           2.9 Watts maximum  
 LAN Drivers Provided   DOS NDIS, DOS ODI  
 PCMCIA Drivers Provided Socket Services Enabler  
 Software Compatibility  ODI Driver: NetWare 2.xx,  
                           3.xx;  
                           NDIS Driver: LAN Manager  
                           and OEM versions (such as  
                           LAN Server); VINES; PC/TCP;  
                           DECnet; and WIN/TCP

NOTE: Drivers support both  
 shared memory and  
 programmed I/O data  
 transfer modes

Data Bus Width        16 bits  
 Buffer Memory          16K or optional 64K Bytes  
 Data Transfer          Programmed I/O or Shared  
                           Memory  
 PCMCIA Adapter Size   Type II, 3.37" x 2.16"  
                           x .196" (85mm x 54.0mm  
                           x 5.0mm)

Environmental Limits   Operating Temperature:  
                           0-50°C (32-122°F)  
                           Humidity: 10-90%,  
                           non-condensing  
                           Altitude: 3050m (10,000)  
                           Maximum

Government Approvals      Part 15 FCC Rules for Class  
A Certification, CISPR-22  
(Europe)