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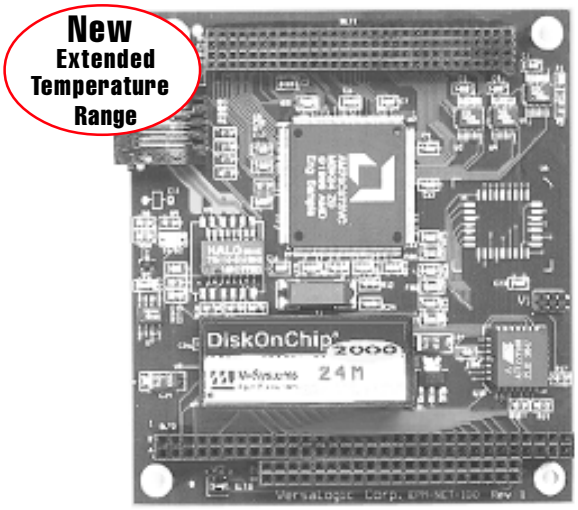
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Find the *Versalogic EPM-NET-100* at our website: *Click HERE*

EPM-NET-100

High Speed Ethernet

Dual speed Ethernet + Flash expansion for PC/104-Plus systems.



Features

- **10BaseT / 100 BaseTX high speed Ethernet**
- **32-pin DiskOnChip® socket**
- **PC/104-*Plus* high speed PCI interface**
- **12K Ethernet transmit / receive data buffer**
- **Remote boot Ethernet option**

Description

The EPM-NET-100 module combines a high-performance 10/100 Megabit per second (Mbps) Ethernet interface with an on-board DiskOnChip nonvolatile storage site. It features a high-speed PC/104-*Plus* PCI system interface to support high network data rates.

The Ethernet section, based on the AMD 79C973 controller, provides a standard 10BaseT and 100BaseTX network interface. Software drivers are available for a wide variety of operating systems to provide a complete high-performance networking solution. The Ethernet controller features auto-negotiation for standard twisted-pair (10T/100TX) operation using a modified 10BaseT link integrity test pulse sequence. It automatically configures to match the speed of the connected hub without the need for jumper or software configuration.

An optional Ethernet boot-ROM site allows the system to automatically boot from a server at power-up, eliminating the need for a local hard or floppy drive.

The EPM-NET-100 module also provides a socketed DiskOnChip site for Flash File Systems. The completely nonvolatile solid state memory is ideal for both program and data storage. Normally the DiskOnChip operates like a standard disk drive and supports normal file type reads and writes. Most operating systems also support the DiskOnChip as a bootable device, allowing 100% solid state program storage. Combining both Ethernet and Flash expansion on a single module provides considerable cost and space savings for systems that do not have adequate Flash capacity.

The EPM-NET-100 module is plug compatible with any PC/104-*Plus* expansion site. It is not compatible with older PC/104 type systems that do not include a high-speed *Plus* connector.

The EPM-NET-100 is fully compatible with a wide selection of popular operating systems including most Windows and Real Time Operating Systems.

The module features high reliability design and construction, along with burn-in and complete functional testing. It is backed by a two-year limited warranty and VersaLogic's outstanding service and support.

VERSALOGIC CORPORATION

3888 Stewart Road, Eugene, OR 97402 • (541) 485-8575 • Fax (541) 485-5712 • info@versalogic.com • www.versalogic.com

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EPM-NET-100

High Speed Ethernet

Ordering Information

EPM-NET-100 . . . . . .PC/104 Ethernet Module

VL-DOC-xxx. . . . . xxx MB DiskOnChip IC
VL-HDW-101. . . PC/104 Standoff Pkg. Metric Thread
VL-HDW-201. . . . . PC/104 extractor tool

Specifications

Specifications are typical at 25°C with 5.0V supply unless otherwise noted.

Board Size:
3.55" x 3.775" (PC/104 standard)
Storage Temperature:
– 40°C to +85°C
Free Air Operating Temperature:
– 20°C to +85°C
Power Requirements:
+5V ±5% @300 ma typical (without DiskOnChip module)
Humidity:
Less than 95%, noncondensing

Ethernet Controller:
AMD 79C973
Ethernet Buffer RAM:
12 KB
Ethernet Compatibility Modes:
10BaseT
100BaseTX
Complies with IEEE/ANSI 802.3 and Blue Book standards
Ethernet Boot ROM Socket:
Site available for 29F040 Flash ROM
DiskOnChip Site:
32-pin DIP socket.
Accepts DiskOnChip modules
Occupies 8K memory space
7 jumper selectable addresses or socket disable
External Connectors:
Ethernet: RJ-45 jack
Bus Compatibility:
PC/104-*Plus* (+5V or +3.3V signaling)

Specifications are subject to change without notice. PC/104, PC/104-*Plus*, and their logos are trademarks of the PC/104 Consortium. DiskOnChip is a trademark of M-Systems.

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