



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

## Features

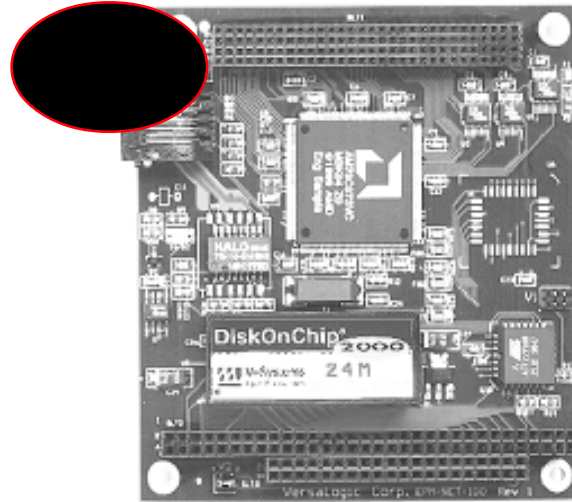
- 10BaseT / 100 BaseTX high speed Ethernet
- 32-pin DiskOnChip® socket
- PC/104-Plus high speed PCI interface
- 12K Ethernet transmit / receive data buffer
- Remote boot Ethernet option

## 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.





# 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.

