ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *General Micro Systems ENET VIII Octopus* at our website: ***Click HERE***

Products

Key Features
General Description
Specifications
Ordering Information

Download Data Sheet
Get Acrobat Reader
View Block Diagram

PMC ENET VIII Octopus

ENET VIII Octopus

Octal 10/100Base-Tx Ethernet Adapter PMC Module

Click here to view full-size photo.

Key Features:

- Up to Eight Channels of 10/100Base-Tx Ethernet Ports (Full-Duplex)
- Utilizes Intel® 82559ER Integrated MAC/PHY Controller
- Four RJ-45 for Direct Front Panel Access
- Four Channels on Rear Panel I/O
- Highly Integrated Router, Repeater Solution
- Extremely Low Cost Per Channel
- Link Status and Transfer LED Indicators for Each Channel
- Support for all Major Operating Systems, Windows NT®/2000, VxWorks® and Linux®

General Description: The GMS ENET VIII Octopus, is the industry's first octal independent 10/100Base-Tx, PMC module. The ENET VIII utilizes the 82559ER, Intel's® latest MAC/PHY integrated controller for a high performance, low cost network adapter expansion module. This PMC module is fully compliant with 1386.1 specifications, allowing any single board computer to add an additional eight channels of 10/100Base-Tx.

The Octopus is configured as eight independent channels; four of which are connected to the front panel via a standard RJ-45 connector, and four which are routed to J3 of the rear panel I/O. Therefore, the module can be used in front or rear panel applications. The Isolation transformers for the rear panel channels are placed on the transition module, thus avoiding impedance mismatch issues and guaranteeing 100m cable length for each channel. For OEM applications, GMS provides full schematics and Bill of Materials (BOM) for this transition module, to be integrated directly into the customer's back plane.

To support all eight channels of PCI devices, the Octopus provides an Intel 21150 PCI-to-PCI bridge. This device maps all eight channels to the host processor, thus they appear to be a local to host PCI bus.

The GMS ENET VIII opens up many applications for the VME or CompactPCI systems, which had been prevented, due to their high cost and slot count. For instance, when the ENET VIII is integrated on the GMS V158 or C158 VME/CompactPCI Single Board Computers (SBC), with 850 MHz Pentium® processors, dual PMC expansion and an additional triple PMC carrier (2-slot version), one can have over 40 channels of collision free 10/100Base-Tx communication ports. This comes at a lower cost than any smart router in the industry, yet is a much smaller package, and provides collision-free networking for outstanding performance!

General Micro Systems provides a full array of PMC expansion modules for industrial automation/communication markets. GMS is also the leading

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

manufacturer of Single Board Computers for both VME and CompactPCI form factors.

Return to Top

Specifications		
Physical Specifications		
Dimension	Measurement	
Height	0.650 in	
Length	5.865 in	
Width	2.912 in	
Electrical Specifications		
Characteristic	Value	
Power Consumption	4 Watts	
Supply Voltage	+3.3 Volts (+5%, -2.5%) +5 Volts (+5%, -2.5%)	
Environmental Specifications		
Operating		
Characteristic	Minimum Value	Maximum Value
Temperature	0°C	55°C
Humidity (non-condensing)	5%	95%
Altitude Range	0 feet	40,000 feet
Shock	6g, 11 msec, ½ sine wave	
Vibration	0.01G²/Hz 50-500-Hz Random Vibrations	
Non-Operating		
Characteristic	Minimum Value	Maximum Value
Temperature	-55°C	150°C
Humidity (non-condensing)	5%	95%
Altitude Range	0 feet	40,000 feet
Shock	6g, 11 msec, ½ sine wave	
Vibration	0.01G²/Hz 50-500-Hz Random Vibrations	
Mean Time Between Failures (MTBF)		
394,011.0157 Hours (Per Mil-HDBK-217E-2)		

Return to Top

Last Updated: 11/06/2017 12:31:12
This site and all its contents are Copyright ©2000 General Micro Systems, Inc.
All trademarks are owned by their respective companies.
webmaster@gms4vme.com.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP