

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.

Visit our website - *Click HERE*

C&H Technologies, Inc. ● 445 Round Rock West Drive ● Round Rock, TX 78681-5012
(512) 733-2621 ● FAX (512) 733-2629 ● www.chtech.com



EM405D Ethernet M-Module Carrier

The EM405D easily interfaces a VITA 12-1996 standard M/MA Module to a typical Ethernet network. The carrier allows the numerous functions available in the M-Module mezzanine format to be remotely located near the unit-under-test, easing many system integration issues. Over 140 M/MA modules are available from numerous manufacturers.

The EM405D is available as either wired or wireless (Wi-Fi) Ethernet and with or without the enclosure.

Overview:

The EM405D Ethernet M-Module carrier provides complete Ethernet connectivity to the many industry standard M-modules available. The EM405D supports two single-wide or one double-wide M-module. The unit is available with a rugged steel/aluminum enclosure suitable for the desktop or rack installation or without the enclosure for application specific mounting.

A simple Ethernet command protocol eases software integration and allows M-module reset, identification, and complete control and configuration of the module. The carrier provides full access to the M-module I/O space. A flexible block access command speeds sequential data access.

MA-module triggers are fully supported allowing inter-module triggering and external input or output triggers through the 9-pin DSUB connector.

+12VDC external power must be supplied by the user through either a standard 2.5mm power jack or through the 9-pin DSUB connector. All other voltage levels required by the internal logic and the installed M-modules are generated internally.

Variable speed forced air cooling helps maintain M-module and internal circuitry temperature. Unit's internal temperature can be monitored to ensure safe operating levels.

Ordering Information

Part Numbers	
Wired w/encl.	11028850-0001
Wireless w/encl.	11028850-0002
Wired no encl.	11028850-1001
Wireless no encl.	11028850-1002
AC Power Adapter (+12V 30W)	
AM109	11028848-0001

M Module Compliance

Complies with ANSI/VITA Std. 12-1996 for single or double-wide M or MA Modules

Data Transfers:	D16
Addressing:	A08
Triggers:	TRIGA & TRIGB

Mechanical:

Size:	5.6"W x 8.5"D x 1.5"H
Weight:	1.7 lbs

Environmental Specs:

Operating:	0˚C to 60˚C*
Storage:	-40˚C to 70˚C

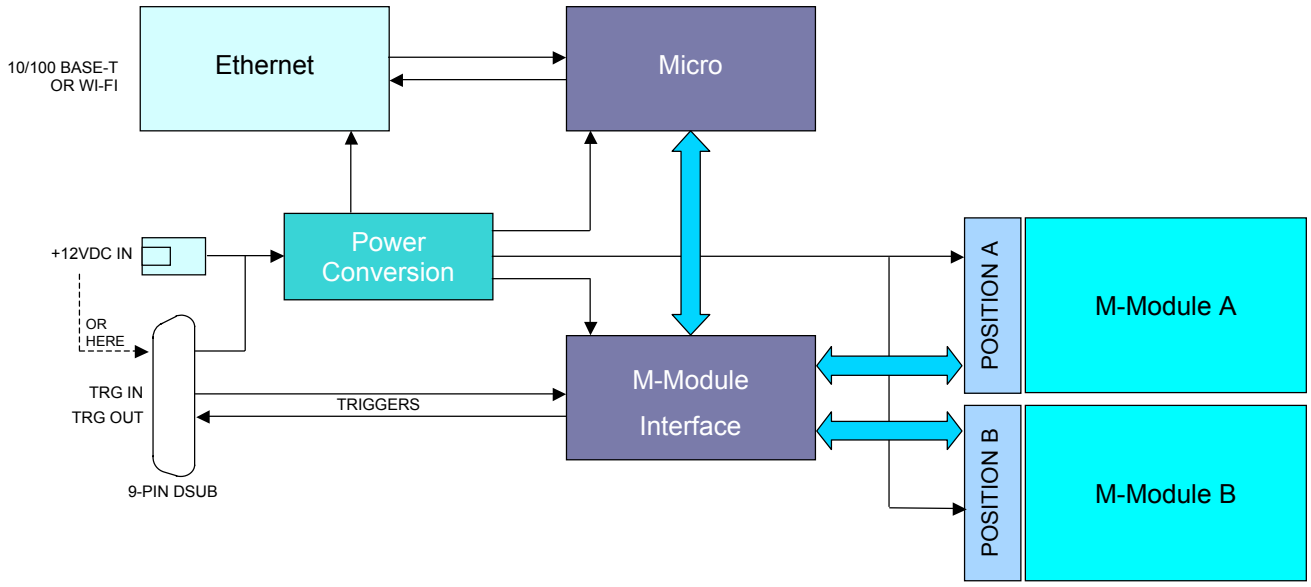
* See User Manual for operational limitations

Applications

- System integration
- Data Acquisition & Analysis
- Control Processing

Additional Information

User Manuals for this carrier and other C&H modules can be found on our website at www.chtech.com.



Specifications:

Ethernet:

- Easy network configuration through web based interface
- TCP/IP and UDP/IP supported for M-module communication
- Static IP, DHCP, and AutoIP addressing supported
- ARP, ICMP, SNMP, TFTP, Telnet, BOOTP, and HTTP protocols support for device administration

Wired Ethernet (-x001):

- Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- RJ-45 Connector
- 10Base-T connection indicator
- 100Base-TX connection indicator
- Link & activity indicators

Wireless (Wi-Fi) Ethernet (-x002):

- Wireless Ethernet 802.11b (2.4GHz)
- Data rates up to 11Mbps
- WPA security and WEP encryption
- Antenna included
- Link & activity indicators
- Transmit power: 16 dBm typical
- Receive sensitivity: -82 dBm @ 11 Mbps

Triggers:

- M-module Trigger A and B supported
- External Trigger In can trigger one or both M-modules
- Any M-module trigger can be directed to external trigger out
- M-module A can trigger M-module B and vice-versa

External Power:

- +12VDC
- 30W required for internal logic and two M-modules at maximum allowed power
- 470ma typical (-x001) and 510 ma typical (-x002) is required for internal carrier operation
- User may provide less power depending on M-modules installed
- Power may be supplied through the 2.5mm power jack or 9-pin DSUB (reverse polarity protected)
- ON/OFF switch
- AC power adapter available (order accessory AM109)

M-Module Power (each M-module position):

- +5V 1A max.
- +12V 200ma max.
- -12V 200ma max.

Software Command Protocol:

- Byte level command structure
- Initialization and reset commands
- Configuration (triggers)
- Identification (manufacture/model)
- Status (temperature)
- Register read/write
- Memory read/write
- Block Access read/write

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