Mitsubishi Electric

A7NETH-V2 Multiprotocol Ethernet Interface

700-Series Drive Family Dual-Port Ethernet Communications

The A7NETH-V2 is a user-configurable multiprotocol communications interface card for the Mitsubishi Electric 700-series family of adjustable speed drives. The A7NETH-V2 installs directly onto the drive, and provides connectivity to several popular Ethernet-based automation networks. Once installed, the A7NETH-V2 provides Ethernet/internet access to all internal drive configuration, command and monitoring parameters. Interface card configuration is performed online or offline using a Windows®-based software utility, which interfaces to the card via USB or Ethernet.

Supported protocols currently include:

- Modbus/TCP
- BACnet/IP
- PROFINET IO
- EtherNet/IP (for connectivity to Allen-Bradley –Logix and equivalent platforms)
- Allen Bradley CSP (for connectivity to Allen-Bradley PLC-5/E and SLC-5/05 –class PLCs)
- Mitsubishi MELSEC / SLMP
- CC-Link IE Field Basic
- IEC 61850

The A7NETH-V2 incorporates a variety of leading-edge automation and IT technologies, such as:

- Dual RJ-45 ports with embedded 10BASE-T/100BASE-TX Ethernet switch supports daisy-chain, ring (via PROFINET MRP or EtherNet/IP DLR) and traditional star topologies.
- MDI/MDI-X auto-crossover allows the use of any combination of straight-through and crossover Ethernet cables.
- The free Mitsubishi Configuration Studio software provides for convenient discovery, configuration and firmware updating via USB and Ethernet. Multiple individual interface configurations can be contained within a single master project file.
- Backup and restore all drive parameter settings via USB or Ethernet with Mitsubishi Configuration Studio.
- USB 2.0 port with mini-B connector provides composite USB device functionality. In addition to the standard USB connection for interface configuration and firmware updating, the card enumerates as a USB mass storage device ("flash drive") for embedded web server customization.
- Factory-default web server content provides real-time data interaction for all parameters via an Adobe® Flash Player plug-in. Features also include a dashboard GUI with multiple gauge windows, each of which can be configured to display drive data in a variety of meter, graph and gauge formats.
- Open XML-based socket data transfer specification allows end users to create custom web server content and load it onto the card's internal file system. Externally-hosted and executed HMI or PC-based content can also be created to expose data as desired.
- A configurable network timeout action can be programmed that allows parameters to have their own unique "fail-safe" conditions in the event of a network interruption.
- LED indicators include one each bicolor red/green module status and network status LED, and two bicolor red/green Ethernet port LINK/ACT LEDs.
- PROFINET access to drive data via acyclic services, a user-configurable PROFINET IO module and the PROFIdrive profile.
- EtherNet/IP access to drive data via explicit messaging, user-defined I/O assembly instances, and the ODVA AC/DC drive profile.

Scan for more information

For more information about this and other AC Drive communication options, contact your local Mitsubishi Electric Distributor, or visit us online at https://www.mitsubishielectric.com

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