

FR-A7N-ETH Multiprotocol Ethernet Interface

700-Series AC Drive Ethernet Communications

The FR-A7N-ETH is a user-configurable multiprotocol Ethernet communications interface card for the Mitsubishi 700-series family of adjustable speed drives. The FR-A7N-ETH plugs directly onto the drive's control board, and provides connectivity to the most popular Ethernet-based automation networks. Once installed, the FR-A7N-ETH provides Ethernet/internet access to all internal drive configuration, command and monitoring parameters. All interface card configuration is performed using a standard web browser, and all supported protocols can be active simultaneously.

Supported protocols currently include:

- BACnet/IP
- Modbus TCP
- 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 (server)



The FR-A7N-ETH presents a standard 10/100BaseT Ethernet network connection, and incorporates a variety of leading-edge automation and IT technologies, such as:

- Autonomous alarm evaluation with email notification
- Real-time web browser-based data interaction via an Adobe® Flash Player plug-in
- XML-based configuration file access
- 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
- Configuration file transfer and firmware upgrade capability via FTP
- 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
- EtherNet/IP access to inverter data via explicit messaging, user-defined I/O assembly instances, and the ODVA AC/DC drive profile
- Profinet access to inverter data via acyclic services, user-defined cyclic I/O modules, and the PROFIdrive profile

For more information about this and other AC drive communication options, contact your local Mitsubishi Electric distributor, or visit us online at:

- Mitsubishi Electric Automation, Inc.
(<http://www.meau.com>)
- Industrial Control Communications, Inc.
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