# Fuji Electric Corporation

OPC-G1-ETH Multiprotocol Ethernet Interface

FRENIC-Mega AC Drive Ethernet Communications

The OPC-G1-ETH is a user-configurable multiproto-col Ethernet communications interface card for the Fuji Electric FRENIC-Mega family of adjustable speed drives. The OPC-G1-ETH installs directly onto the drive, and provides connectivity to several popular Ethernet-based automation networks. Once installed, the OPC-G1-ETH provides Ethernet/internet access to all internal drive configuration, command and monitoring function codes. All in-terface card configuration is performed using a standard web browser, and all supported protocols can be active simultaneously.
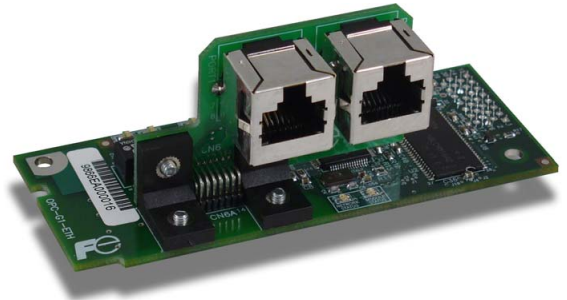
Supported protocols currently include:

- Modbus/TCP

- 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)

- BACnet/IP

The OPC-G1-ETH incorporates a variety of leading-edge automation and IT technologies, such as:

- Dual-port RJ-45 with embedded 10/100 BaseT Ethernet switch supports traditional star and daisy-chain topologies.

- MDI/MDI-X auto-crossover allows the use of any combination of straight-through and cross-over Ethernet cables.

- USB 2.0 port with mini-B connector provides composite USB device functionality. USB connec-tion allows for product identification, configuration and firmware updating. Additionally, the OPC-G1-ETH enumerates as a standard USB mass storage device ("flash drive") for configura-tion file copying and web page customization.

- Open XML-based socket data transfer, which allows end users to create their own custom web server content and load it onto the unit's internal file system via USB.

- Factory-default web server content provides real-time data interaction via an Adobe® Flash Player plug-in. Features include a virtual drive keypad interface, and a dashboard GUI with multiple gauge windows, each of which can be con-figured 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 as-sembly instances, and the ODVA AC/DC drive profile.

- Microsoft Windows®-based Discovery/Configuration tool which enables Ethernet-based discovery of all OPC-G1-ETH cards on the current subnet, as well as providing for USB-based firmware updates.

FUJI ELECTRIC DRIVES & CONTROLS

Scan for more information

Fuji Electric Corp. of America
47520 Westinghouse Dr.
Fremont, CA 94539 USA

Phone: (510) 440-1060
Fax: (510) 440-1063
http://www.fujielectric.com/fecoa

For more information about this and other AC drive communication options, contact your local Fuji Electric distributor, or visit us online at http://www.fujielectric.com/fecoa.