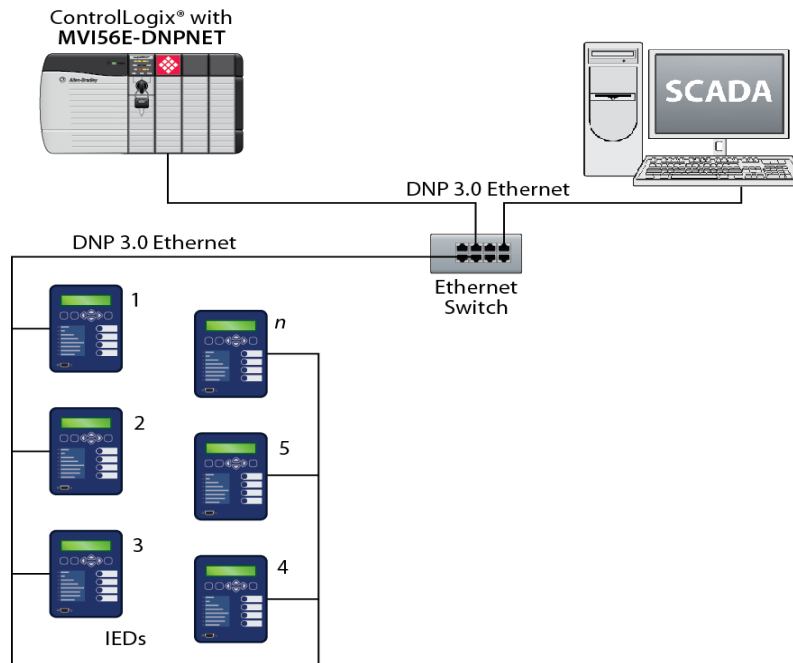


DNP3 Ethernet Communication Module for ControlLogix® MVI56E-DNPNET

The MVI56E DNP3 Ethernet Communication Module allows Rockwell Automation ControlLogix® PACs to interface on a DNP3 Ethernet network. The module supports operation as an Ethernet Client with up to 40 DNP3 Ethernet server devices such as RTUs, IEDs, and various protection relays. With support for 300 user definable commands and a maximum of up to 20,000 points of data, the module can be used to obtain data from a network of devices over a DNP3 Ethernet link.

Additionally the module can simultaneously operate as a DNP3 Ethernet server allowing the unit to interface to other client devices such as SCADA and DCS systems using the DNP3 protocol. With a large event data storage for up to 20,000 time stamped events, the module will buffer event data during a loss of communications with the DNP3 client device, reporting this information when communications has been re-established.

The module utilizes an Add-On Instruction in RSLogix 5000 for the configuration and setup of the module, allowing configuration data to be stored in the PAC ladder code. Remote diagnostics of the unit can be performed using the ProSoft Configuration Builder utility or through controller tags available in RSLogix 5000.



General Specifications

- ◆ Single-slot 1756 ControlLogix backplane compatible
- ◆ 10/100 Mbps auto crossover detection Ethernet configuration and application port
- ◆ User-definable module data memory
- ◆ CIPconnect-enabled network diagnostics monitoring using ControlLogix 1756-ENxT and 1756-CNB modules and EtherNet/IP pass-through communication
- ◆ Add-On Instructions (AOI) are used for backplane data transfer
- ◆ ProSoft Discovery Service (PDS) software used to locate the module on the network and assign temporary IP address

DNP3 Ethernet Specifications

Specification	Description
Supported DNP3 functions	DNP3 Ethernet client: Up to 40 IED connections and up to 300 commands DNP3 Ethernet server: With support for (1) TCP/IP connection and support for UDP services
Supported Data Types	DNP3 Client Database: Binary Inputs: 8,000 Binary Outputs: 8,000 Counters: 1,000 Analog Inputs: Max 20,000 (16 bit) or Max 10,000 (32 bit or Float) Analog Outputs: Max 20,000 (16 bit) or Max 10,000 (32 bit or Float) DNP3 Server Database: Binary Inputs: 8,000 Binary Outputs: 8,000 Counters: 1,000 Analog Inputs: Max 5,000 (16 bit) or Max 2,500 (32 bit or Float) Analog Outputs: Max 5,000 (16 bit) or Max 2,500 (32 bit or Float) Event Buffer Queue Size: Binary Inputs: 20,000 Analog 16: 20,000 Analog 32: 10,000 Float: 10,000

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 Vdc 3 mA @ 24 Vdc
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Shock	30 g operational 50 g non-operational
Vibration	5 g from 10 Hz to 150 Hz
Relative Humidity	5% to 95% RH, with no condensation
LED Indicators	Battery Status (ERR) Application Status (APP) Module Status (OK)
4-Character Display	Shows Module IP Address
Ethernet Port	10/100 Base-T, RJ45 Connector, for CAT5 cable Link and Activity LED indicators Auto-crossover cable detection

Agency Approvals & Certifications

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MVI56E-DNPNET

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