



Installation Instructions

ControlLogix Ethernet Communication Interface Module

Catalog Number 1756-ENET/B

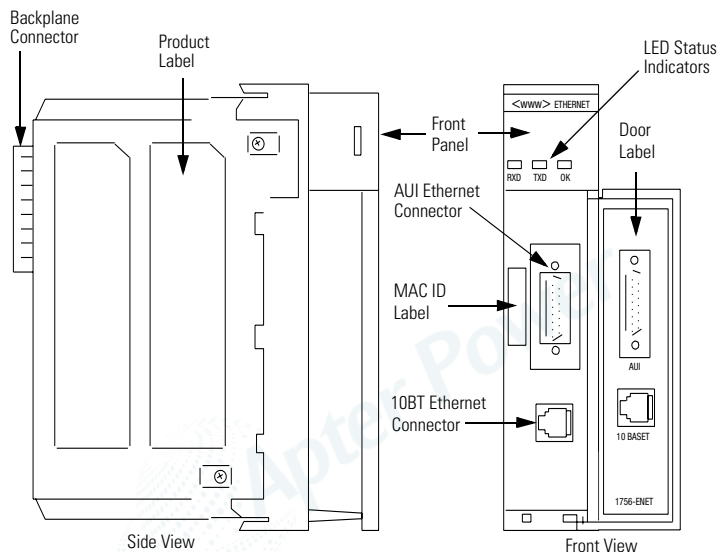
Use this manual as a guide to install the ControlLogix™ Ethernet™ Communication Interface Module. This table identifies what this manual contains and where to find specific information.

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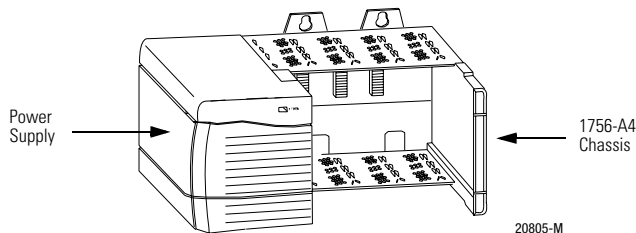
Identifying Module Components

Use this illustration to identify the external features of the Ethernet module.



Preparing the Chassis for Module Installation

Before you install the Ethernet module, you must install and connect a ControlLogix chassis and power supply.

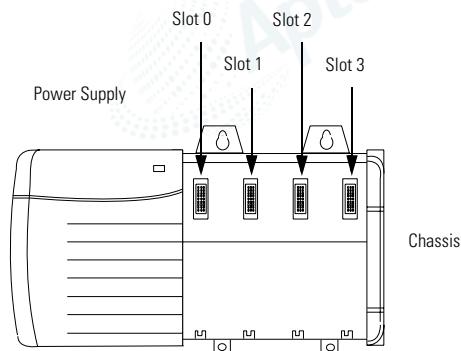


For information about installing these products, refer to the publications listed in this table.

Chassis Type	Chassis Installation	Power Supply	Power Supply Installation
Series B: 1756-A4, -A7, -A10, -A13, -A17	Pub. No. 1756-IN080	1756-PA72/B	Pub. No. 1756-5.67
		1756-PB72/B	
		1756-PA75/A	Pub. No. 1756-5.78
		1756-PB75/A	

Determining Module Slot Location

You can install the module in any slot in the ControlLogix chassis. You can also install multiple ENET modules in the same chassis. The figure below shows chassis slot numbering in a 4-slot chassis. Slot 0 is the first slot and is always the leftmost slot in the rack (the first slot to the right of the power supply).



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Installing or Removing the Module While Power Is Applied

You can install or remove the module while chassis power is applied. Please observe the following precautions.

WARNING



When you insert or remove the module while backplane power is on, or you connect or disconnect the communications connectors, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

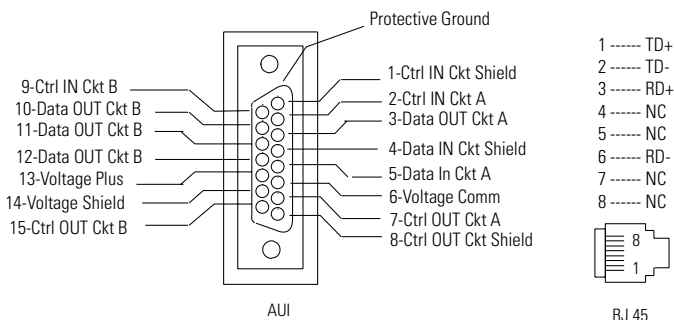
Repeated electrical arcing causes excessive wear to contacts on both the module and its mating connector. Worn contacts may create electrical resistance that can affect module operation.

Wiring the Ethernet Connector

Use either an AUI or an RJ45 connector to connect to the Ethernet network.

For detailed Ethernet connection information, see the EtherNet/IP Performance and Application Guide, publication ENET-IN001.

Wire the appropriate connector according to this illustration.

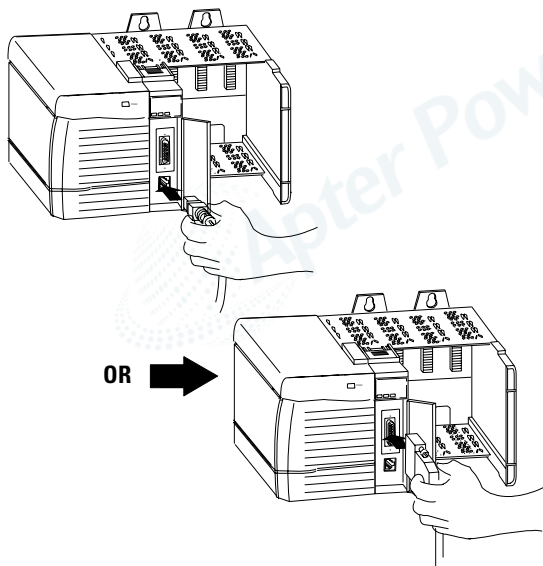


Connecting the Module to the Ethernet Network

WARNING

If you connect or disconnect the Ethernet cable with power applied to this module or any device on the network, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

Attach the AUI or RJ45 connector to the matching Ethernet port:



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Specifications

Module Location	Any slot in the ControlLogix chassis
Maximum Backplane Current Load	900mA @ 5.1V dc 350mA @ 24V dc from I/O chassis backplane
Power Dissipation	13.3W maximum
Operating Temperature	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 0 to 60°C (32 to 140°F)
Storage Temperature	IEC 60068-2-1 (Test Ab, Un-packaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Un-packaged Non-operating Dry Heat), IEC 60068-2-14 (Test Na, Un-packaged Non-operating Thermal Shock): -40 to 85°C (-40 to 185°F)
Relative Humidity	IEC 60068-2-30 (Test Db, Un-packaged Non-operating Damp Heat): 5 to 95% non-condensing
Shock	IEC 60068-2-27 (Test Ea, Unpackaged Shock): Operating 30g Non-operating 50g
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5g @ 10-500Hz
Emissions	CISPR 11: Group 1, Class A
ESD Immunity	IEC 61000-4-2: 6kV contact discharges 8kV air discharges
Radiated RF Immunity	IEC 61000-4-3: 10V/m with 1kHz sine-wave 80%AM from 30MHz to 1000MHz 10V/m with 200Hz 50% Pulse 100%AM at 900Mhz
EFT/B Immunity	IEC 61000-4-4: ±2kV at 5kHz on communications ports
Surge Transient Immunity	IEC 61000-4-5: ±2kV line-earth (CM) on shielded ports
Conducted RF Immunity	IEC 61000-4-6: 10Vrms with 1kHz sine-wave 80%AM from 150kHz to 80MHz