Install the Module

You can install or remove a module while chassis power is applied.

WARNING: When you insert or remove the module while backplane power is on, an electric arc can occur. The insertion or removal of the module while the backplane power is on can cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding. Repeated electric arcs can cause excessive wear to contacts on both the module and its mating connector. Worn contacts can create electrical resistance that can affect module operation.

For equipment with multi-point network communication connections.

WARNING: If you connect or disconnect the communication cable with power that is applied to this module or any device on the network, an electric arc can occur. This connection or disconnection of the module with applied power can cause an explosion in hazardous location installations.

Be sure that power is removed or the area is nonhazardous before proceeding.

ATTENTION: If you are using the 1756-EN4TR or 1756-EN4TRK above 50 °C(122 °F), it must be installed in a Series C chassis.

ATTENTION: In order to operate over its full rated temperature range, the 1756-EN4TRXT must be used with a Series C XT Chassis.

Follow these steps to install the module.

1. Set the network IP address on a module.

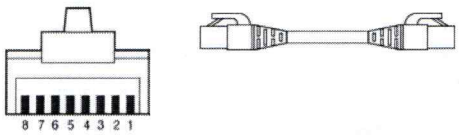
   For more information about how to configure an EtherNet/IP network, see the EtherNet/IP Network Configuration User Manual, publication ENET-UM001.

   Depending on the 1756 EtherNet/IP communication module, you can use some or all of these tools to set the network Internet Protocol (IP) address:

   - Rotary switches
   - Bootstrap Protocol (BOOTP)/Dynamic Host Configuration Protocol (DHCP) server
   - RSLinx® Classic software
   - The Studio 5000® environment

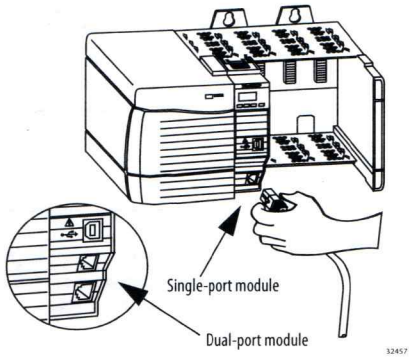
   The module uses these tools sequentially to set the IP address.
2. Determine module slot location.
3. Install the module.
   a. Align the circuit board with top and bottom guides in the chassis.
   b. Slide the module into the chassis.

   Make sure that the module backplane connector properly connects to the chassis backplane. The module is properly installed when it is flush with the power supply or other installed modules.
4. Connect the module to an EtherNet/IP network via an RJ45 connection.



Connector Number	Color	1585J 8-pin Cables with Support for 10/100/1000 Mbps	1585J 8-pin Cables with Support for 10/100 Mbps	1585J 4-pin Cables with Support for 10/100 Mbps
1	White/Orange	BI_DA+	TxData +	
2	Orange	BI_DA-	TxData -	
3	White/Green	BI_DB+	Recv Data +	
4	Blue	BI_DC+	Unused	N/A
5	White/Blue	BI_DC-	Unused	N/A
6	Green	BI_DB-	Recv Data -	
7	White/Brown	BI_DD+	Unused	N/A
8	Brown	BI_DD-	Unused	N/A

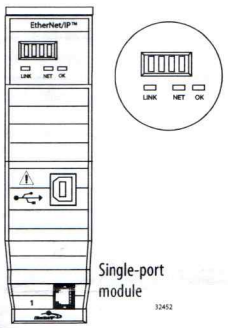
5. Attach the cable with the RJ45 connector to the Ethernet port on the module as shown.

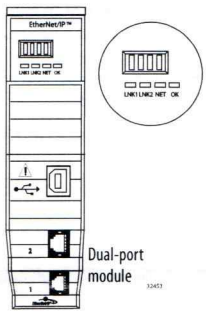


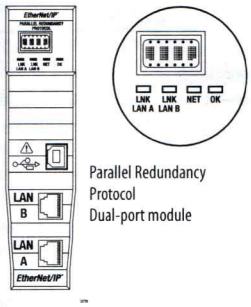
6. Download the Add-on Profile from the Product Compatibility and Download website at http://www.ab.com.
7. Connect to the module via the USB port (if the module is equipped with a USB port).
8. Download the firmware from the Product Compatibility and Download website at http://www.ab.com.
9. Apply chassis power and check status indicators.

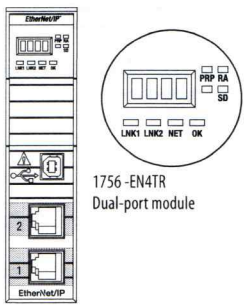
Status Indicators

These 1756 EtherNet/IP communication modules use the same status indicators. This graphic shows the front of the module for these modules (Extended-temperature modules not shown.)









For more information on the status indicators, see the EtherNet/IP Modules Installation Instructions, publication ENET-IN002.

Network Connectors and Cable

This product includes a USB port.

WARNING: The USB ports are intended only for temporary use and must not be connected or disconnected unless the area is nonhazardous. Do not use the USB port in hazardous locations.

The USB cable is not to exceed 3.0 m (9.84 ft) and must not contain hubs.

Modules	Ports	Requirements
EtherNet/IP	Copper Ethernet	Connector/cable: RJ45 connector according to IEC 60603-7, 2 or 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 11801-3. Connector/cable: For 1756-EN4TR, 1756-EN4TRK, and 1756-EN4TRXT, RJ45 connector according to IEC 60603-7, 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 11801-3.