

Enhanced Intelligent Communication Module (EICM)

The Enhanced Intelligent Communication Module (EICM) enables a Tricon controller to communicate with Modbus devices (masters or slaves), with a TriStation PC, and with a printer. A single Tricon High-Density controller supports up to two EICM modules which reside in one logical slot. This arrangement provides a total of six Modbus ports, two TriStation ports, and two printer ports. (The hot-spare feature is not available for the EICM, though you *can* replace a faulty EICM while the controller is online.)

Each EICM has four serial ports and one parallel port which can operate concurrently. The four serial ports are uniquely addressed and support either the Modbus or TriStation interface. Modbus communication can be performed in either RTU or ASCII mode. The parallel port provides a Centronics interface to a printer.

Each EICM supports an aggregate data rate of 57.6 kilobits per second, which means the total data rate for all four ports must be less than or equal to 57.6 kilobits per second.

Any standard Modbus device can communicate with a Tricon controller using the EICM provided that aliases are assigned to the tagnames (points) used in the control program. For more information, see the *TriStation 1131 Developer's Guide*.

For additional information, see the *Communication Guide for Tricon v9-v11 Systems* and *Replacing EICMs* on page 296.

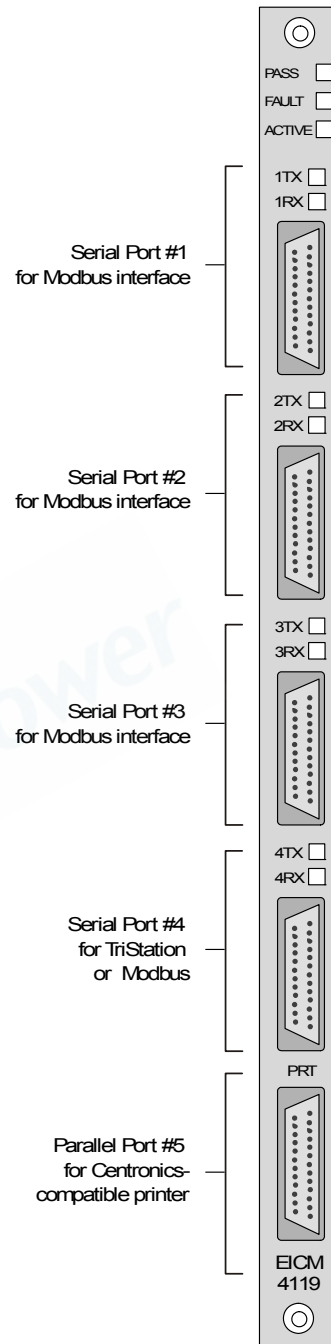


Figure 73 EICM Front Panel

4119 and 4119A Specifications

This table lists the specifications for the Model 4119 and 4119A EICM.

Table 68 4119 and 4119A EICM Specifications

Feature	Specification
Serial port	RS-232, RS-422 or RS-485, isolated to 500 VDC
Parallel ports	Centronics, isolated to 500 VDC
Protocol	TriStation, Modbus
Modbus functions supported	01 – Read Coil Status
	02 – Read Input Status
	03 – Read Holding Registers
	04 – Read Input Registers
	05 – Modify Coil Status
	06 – Modify Register Content
	07 – Read Exception Status
	08 – Loopback Diagnostic Test
	15 – Force Multiple Coils
	16 – Preset Multiple Registers
Communication speed	1200, 2400, 9600 or 19,200 baud
Status indicator: Module status	Pass, Fault, Active
Status indicator: Port activity	TX (Transmit) – 1 per port RX (Receive) – 1 per port
Status indicator: Logic power	< 10 watts
System version compatibility	Tricon v10.x or earlier systems