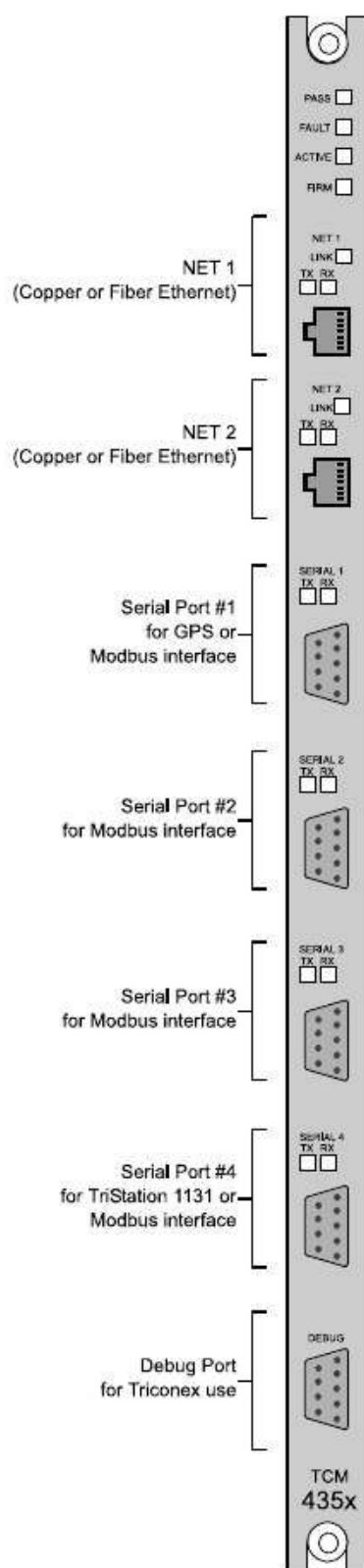


Product Specifications



computers access the Tricon through other communication modules. See “Communication Capabilities” on page 61 for more information.

TCM Models 4353 and 4354 have an embedded OPC server on NET 2, which allows up to 10 OPC clients to subscribe to data collected by the OPC Server. The embedded OPC Server supports the Data Access 2.05 standard and the Alarms and Events 1.10 standard.

Each TCM contains two network ports—NET 1 and NET 2. Models 4351A, 4351B, and 4353 have two copper Ethernet (802.3) ports and Models 4352A, 4352B, and 4354 have two fiber-optic Ethernet ports.

On TCM Models 4351A, 4351B, 4352A, and 4352B, NET 1 and NET 2 support the TCP/IP, Modbus TCP/IP Slave/Master, TSAA, TriStation, SNTP, and Jet Direct (for network printing) protocols. NET 1 also supports the Peer-to-Peer (UDP/IP) and

Peer-to-Peer Time Synchronization protocols.

On TCM Models 4353 and 4354, NET 2 supports only the embedded OPC server, TriStation, and SNTP protocols, while NET 1 supports all of the listed protocols except the embedded OPC server.

A single Tricon system supports a maximum of four TCMs, which must reside in two logical slots. Different TCM Models cannot be mixed in one logical slot. Each Tricon system supports a total of 32 Modbus masters or slaves—this total includes network and serial ports. The hot-spare feature is not available for the TCM, though you *can* replace a faulty TCM while the controller is online.

TCM Specifications

Model Number	4351A, 4351B, 4352A, 4352B, 4353, 4354										
Serial ports	4, RS-232/RS-485 ports, DB-9 connectors										
Network ports	2, 10/100BaseT Ethernet ports, RJ-45 connectors (Models 4351A, 4351B, 4353) 2, fiber-optic mode Ethernet ports, MT-RJ connectors with 62.5/125 um fiber cables (Models 4352A, 4352B, 4354)										
Port isolation	500 VDC										
Protocols	TriStation, Modbus, TCP/IP, ICMP, SNTP, TSAA (with support for IP Multicast), Trimble GPS, Embedded OPC Server (Models 4353 and 4354), Peer-to-Peer (UDP/IP), Peer-to-Peer Time Synchronization, Jet Direct (network printing)										
Modbus functions supported	<table border="0"> <tr> <td>01 — Read Coil Status</td><td>06 — Modify Register Content</td></tr> <tr> <td>02 — Read Input Status</td><td>07 — Read Exception Status</td></tr> <tr> <td>03 — Read Holding Registers</td><td>08 — Loopback Diagnostic Test</td></tr> <tr> <td>04 — Read Input Registers</td><td>15 — Force Multiple Coils</td></tr> <tr> <td>05 — Modify Coil Status</td><td>16 — Preset Multiple Registers</td></tr> </table>	01 — Read Coil Status	06 — Modify Register Content	02 — Read Input Status	07 — Read Exception Status	03 — Read Holding Registers	08 — Loopback Diagnostic Test	04 — Read Input Registers	15 — Force Multiple Coils	05 — Modify Coil Status	16 — Preset Multiple Registers
01 — Read Coil Status	06 — Modify Register Content										
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03 — Read Holding Registers	08 — Loopback Diagnostic Test										
04 — Read Input Registers	15 — Force Multiple Coils										
05 — Modify Coil Status	16 — Preset Multiple Registers										
Communication speed	Copper Ethernet ports: 10/100 Mbps (Model 4353 supports only 100 Mbps) Fiber Ethernet ports: 100 Mbps Serial ports: up to 115.2 Kbps per port										
Status Indicators	PASS, FAULT, ACTIVE, FIRM LINK— 1 per network port, TX (Transmit) — 1 per port, RX (Receive) — 1 per port										