



Technical Product Guide

Tricon Systems

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Product Specifications

Standard Tricon Products

Description	Model No.	See
Chassis Assemblies		
Main Chassis, High Density Configuration, includes the Tricon printed manuals	8110	page 13, page 21
Expansion Chassis, High Density Configuration	8111	page 13, page 21
Remote Expansion Chassis, High Density Configuration	8112	page 13, page 21
I/O Bus Expansion Cables (Set of 3)	9000 ¹	page 12
I/O-COMM Bus Expansion Cables (Set of 3)	9001	page 12, page 21
Blank I/O Slot Panel	8105	page 22
Power Modules		
120 VAC/VDC – 175-Watt Power Module	8310	page 24
24 VDC – 175-Watt Power Module	8311	page 24
230 VAC – 175-Watt Power Module	8312	page 24
Main Processor Modules		
3008 Main Processor, 16 megabytes DRAM	3008	page 25
Communication Hardware and Software		
Tricon Communication Module (TCM), Ethernet (802.3) and serial (RS-232/RS-485) ports	4351A, 4352A, 4353, 4354	page 26
Enhanced Intelligent Communication Module (EICM), serial (RS-232/RS-422/RS-485) ports	4119, 4119A	page 27
Safety Manager Module (SMM), Honeywell UCN Interface	4409	page 28
Network Communication Module (NCM), Ethernet (802.3) ports	4329, 4329G	page 29
Advanced Communication Module (ACM), Foxboro I/A Series Nodebus Interface	4609	page 30
Hiway Interface Module (HIM), Honeywell Data Hiway Interface	4509	page 31
Triconex DDE Server Software	7523-1	page 61
Network Accessory Kit (Ethernet thin cable, connectors and terminators)	7600-3	n/a
Remote Extender Modules		
Primary RXM, Multi-Mode Fiber Optics, Set of 3 Modules	4200-3	page 32
Remote RXM, Multi-Mode Fiber Optics, Set of 3 Modules	4201-3	page 32
Primary SRXM, Single-Mode Fiber Optics, Set of 3 Modules	4210-3	page 32
Remote SRXM, Single-Mode Fiber Optics, Set of 3 Modules	4211-3	page 32
TriStation Software		
TriStation 1131 v4.1.x Software License with printed manuals	Contact Triconex for current model number	page 63
TriStation 1131 v3.1.3 Software License with printed manuals	7244-4	page 63
CEMPLE Language Editor, v3.1.3	7224-4	page 67
Documentation Sets		
Tricon Planning and Installation, Field Terminations, and Communication printed manuals	Contact Triconex for current model number	
Triconex User Documentation, includes all manuals in PDF format (CD-ROM)	Contact Triconex for current model number	

1. I/O Bus Expansion Cables are available in custom lengths. Please contact Triconex for more information.

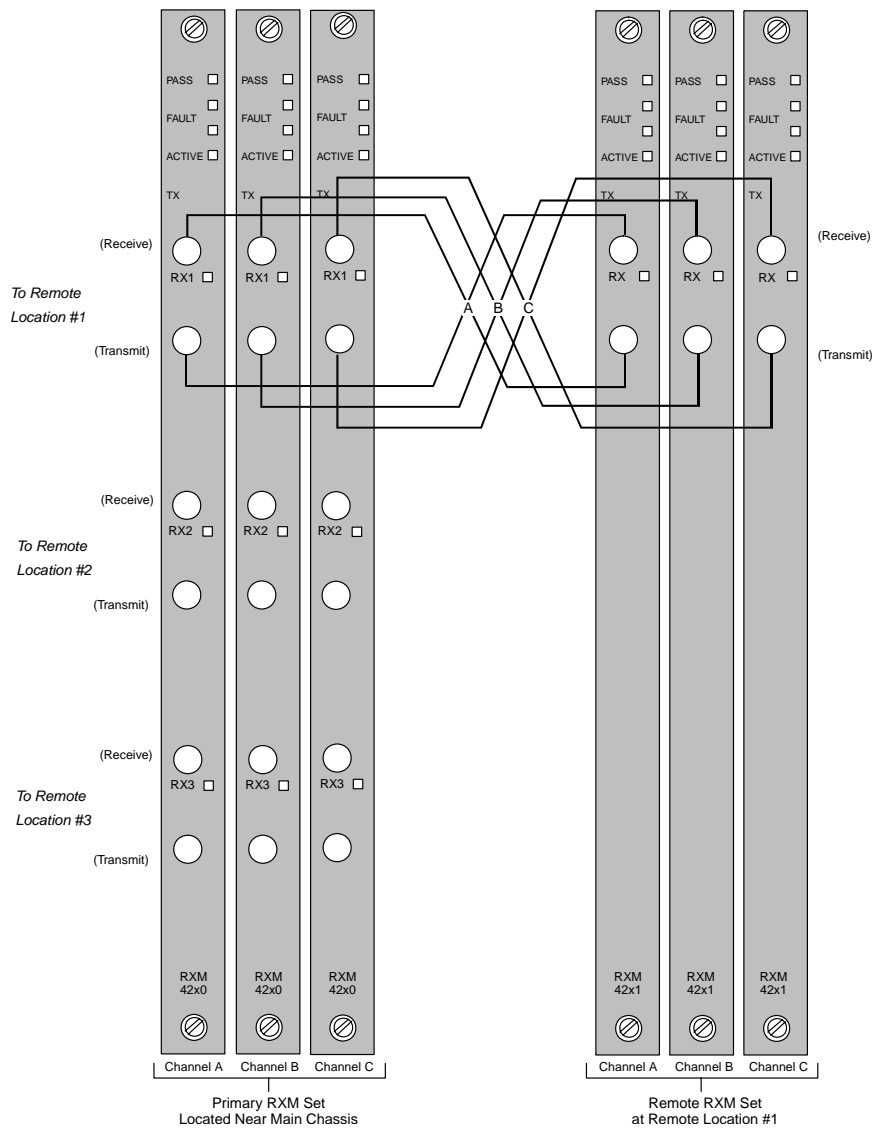
Product Specifications

Remote Extender Module (RXM)

RXMs and chassis allow I/O modules to be located several kilometers from the main chassis. RXM sets, consisting of three identical modules, serve as repeaters and extenders of the Triconex I/O bus and provide ground loop isolation. A primary RXM set supports three remote locations by connecting to three remote RXM sets housed in a remote chassis. See “System Configuration” on page 11 regarding configurations that use RXMs.

RXM sets are available for fiber-optic cables with a communication rate of 375 kilobits per second. These sets provide maximum immunity against electro-static and electro-magnetic interference, and support configurations with optical modems and fiber-optic point-to-point cabling. Remote sites can be located as far as 7.5 miles (12 kilometers) from the primary site.

The figure at right shows uni-directional cabling for three channels of a remote location. For each channel, one cable carries data transmitted from the primary RXM to the remote RXM, and the other cable carries data received by the primary RXM from the remote RXM. A pair of modules must be wired for each of the three channels, amounting to a total of six cables for each remote location.



Sample Wiring for One Remote Location

NOTE: The selection and installation of fiber-optic cabling requires specialized knowledge, training and tools. Triconex recommends hiring a fiber-optic specialist to handle these tasks.

RXM Specifications

RXM Model	4200-3	4201-3	4210-3	4211-3
RXM Chassis Location	Primary	Remote	Primary	Remote
Cable Type	Multi-mode	Multi-mode	Single-mode	Single-mode
Cable Length Limit	1.2 miles (2 kilometers)	1.2 miles (2 kilometers)	7.5 miles (12 kilometers)	7.5 miles (12 kilometers)
Connectors	6/remote site	6	6/remote site	6
Remote Sites Supported	3	n/a	3	n/a
Modem Ports	Fiber Optic with ST connectors	Fiber Optic with ST connectors	Fiber Optic with ST connectors	Fiber Optic with ST connectors
Diagnostic Indicators	PASS, FAIL, ACTIVE, TX, RX1, RX2, RX3	PASS, FAIL, ACTIVE, TX, RX1, RX2, RX3	PASS, FAIL, ACTIVE, TX, RX1, RX2, RX3	PASS, FAIL, ACTIVE, TX, RX1, RX2, RX3