

INDUSTRIAL AUTOMATION PRODUCT

4351B

Tricon Communication Module (TCM)

Triconex 4351B is a Tricon Communication Module for Tricon v10.3 and later systems. The copper TCM execution provides four RS-232/RS-485 serial ports, two RJ-45 Ethernet ports and the documented TriStation, Modbus and time-synchronization interfaces.

IDENTITY	VERIFIED VALUE
Manufacturer	Triconex
System family	Tricon v10.3 and later communication
Part number	4351B
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Triconex product record.

PARAMETER	TECHNICAL VALUE
Module type	Tricon Communication Module (TCM)
System compatibility	Tricon v10.3 and later
Serial ports	4 RS-232/RS-485, DB-9
Network ports	2 RJ-45 copper Ethernet, 10/100 Mbps
Port isolation	500 VDC
Serial speed	Up to 115.2 Kbps per port
Aggregate serial data rate	460.8 Kbps for four ports
Protocols	TriStation; Modbus; TCP/IP; ICMP; SNTP; TSAA; Trimble GPS; peer-to-peer; Jet Direct
Hot-spare operation	Not supported; online replacement supported
Status indicators	PASS; FAULT; ACTIVE; FIRM; LINK; TX; RX

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Tricon v10.3 or later controller
Companion hardware	Two approved logical TCM slots
Field connection	TriStation engineering station
Primary system function	Connects a Tricon controller with TriStation, Modbus devices and external hosts
Controlled acceptance duty	TriStation engineering communications

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System Role and Architecture

Triconex 4351B is a Tricon Communication Module for Tricon v10.3 and later systems. The copper TCM execution provides four RS-232/RS-485 serial ports, two RJ-45 Ethernet ports and the documented TriStation, Modbus and time-synchronization interfaces.

FUNCTION 1

Connects a Tricon controller with TriStation, Modbus devices and external hosts

FUNCTION 2

Provides four serial interfaces and two copper Ethernet network ports

FUNCTION 3

Carries protocol and time-synchronization traffic through the approved TCM interfaces

FUNCTION 4

Supports online replacement while preserving the engineered logical-slot arrangement

Matched system components

- Tricon v10.3 or later controller
- Two approved logical TCM slots
- TriStation engineering station
- Modbus masters/slaves and copper Ethernet network

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Tricon v10.3 or later controller
Companion hardware	Two approved logical TCM slots
Field connection	TriStation engineering station
Primary system function	Connects a Tricon controller with TriStation, Modbus devices and external hosts
Controlled acceptance duty	TriStation engineering communications

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Applications and Engineering Context

TriStation engineering communications

Connects a Tricon controller with TriStation, Modbus devices and external hosts

Modbus master and slave integration

Provides four serial interfaces and two copper Ethernet network ports

Peer-to-peer controller data exchange

Carries protocol and time-synchronization traffic through the approved TCM interfaces

Network time synchronization and diagnostics

Supports online replacement while preserving the engineered logical-slot arrangement

TECHNICAL NOTE

Confirm the Tricon release, logical-slot model compatibility, port assignments and network addressing before replacement; verify PASS/FAULT/ACTIVE/FIRM plus LINK/TX/RX activity after commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	4351B / 4351B recorded
Physical interface	Tricon v10.3 or later controller
Companion check	Two approved logical TCM slots
Functional proof	Connects a Tricon controller with TriStation, Modbus devices and external hosts
Application test	TriStation engineering communications

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Engineering Precautions

1

Verify the 4351B marking and Tricon v10.3-or-later compatibility before removal.

2

Record the logical slot, serial-port mode, IP settings and connected network identity.

3

Isolate or place the affected communication paths in the approved maintenance state.

4

Preserve DB-9 serial wiring, RJ-45 network segregation and the documented grounding arrangement.

5

Do not mix incompatible TCM models in one logical slot or exceed the system TCM allocation.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 4119A	Enhanced Intelligent Communication Module	View Triconex 4119A page
Triconex 4329	Network Communication Module	View Triconex 4329 page
Triconex 3008	Main Processor Module	View Triconex 3008 page
Triconex 3700A	Analog Input Module	View Triconex 3700A page
Triconex 9662-810	Digital Output Termination Panel	View Triconex 9662-810 page
Triconex 4000103-510	Communication Module	View Triconex 4000103-510 page
Triconex 3000510-180	I/O Module	View Triconex 3000510-180 page
Triconex 9771-210	Termination Panel	View Triconex 9771-210 page

MANUFACTURER SOURCE RECORD

Tricon Systems Technical Product Guide and Triconex Lifecycle Phase Report
9791007-013, Product Specifications pp. 26-27; lifecycle report entry for 4351B

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