

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.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon v10.3 and later communication

PART

4351B

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PRODUCT OVERVIEW

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.

- 1 Connects a Tricon controller with TriStation, Modbus devices and external hosts
- 2 Provides four serial interfaces and two copper Ethernet network ports
- 3 Carries protocol and time-synchronization traffic through the approved TCM interfaces
- 4 Supports online replacement while preserving the engineered logical-slot arrangement

SYSTEM COMPONENTS

Tricon v10.3 or later controller

Two approved logical TCM slots

TriStation engineering station

Modbus masters/slaves and copper Ethernet network

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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 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.

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

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Use ESD controls and inspect the keyed module, backplane and network connectors.
- 7 Restore TriStation, Modbus and time-synchronization settings under controlled conditions.
- 8 Review PASS/FAULT/ACTIVE/FIRM and LINK/TX/RX indications, then retain the communication test record.

ENGINEER FAQ

Q1 Does 4351B match Tricon v10.3 or later controller in a TriStation engineering communications installation?

Verify the complete 4351B marking, the documented Tricon v10.3 and later communication position and the installed Tricon v10.3 or later controller before fitting the assembly.

Q3 Which Tricon v10.3 and later communication records should be captured before removing 4351B?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 4351B before disconnection.

Q5 Which Two approved logical TCM slots condition should be checked when 4351B reports an abnormal state?

Check the Two approved logical TCM slots supply, seating and connection first, then compare channel diagnostics with the recorded 4351B baseline.

Q7 What maintenance evidence is required after 4351B is used for Peer-to-peer controller data exchange?

Retain the nameplate record, corrective action, final diagnostics and a controlled peer-to-peer controller data exchange functional-test result for 4351B.

Q2 How should 4351B be wired when it must connects a tricon controller with tristation, modbus devices and external hosts?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 4351B; then continuity-test the affected path.

Q4 What controlled test confirms that 4351B can provides four serial interfaces and two copper ethernet network ports?

Apply the approved field or simulated stimulus, observe the Tricon v10.3 and later communication indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 4351B be moved directly into Modbus master and slave integration without validating Modbus masters/slaves and copper Ethernet network?

No. Confirm the Modbus masters/slaves and copper Ethernet network, revision, connection scheme and Tricon v10.3 and later communication configuration before transferring 4351B to that duty.

Q8 How should 4351B be returned to service in Network time synchronization and diagnostics?

Restore power under control, verify carries protocol and time-synchronization traffic through the approved tcm interfaces, exercise the intended signal path and release 4351B only after the Tricon v10.3 and later communication remains in its approved operating state.

SOURCE 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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