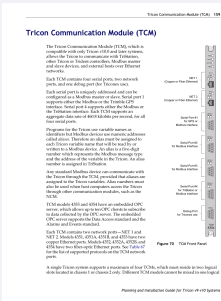


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Triconex 4351B

Tricon Communication Module



SERIAL PORTS	NETWORK	ETHERNET	SOURCE
4 DB-9	2 copper RJ-45	10/100 Mbps	9720077-012

Triconex 4351B connects Tricon v10.3 and later controllers to serial devices and Ethernet hosts. It provides four RS-232/RS-485 serial ports with DB-9 connectors and two 10/100BaseT copper Ethernet ports with RJ-45 connectors.

01 VERIFIED PRODUCT PARAMETERS

Controller release compatibility	Tricon v10.3 or later
Serial interfaces	4 RS-232/RS-485 ports; DB-9
Ethernet interfaces	2 copper 10/100BaseT ports; RJ-45
Port isolation	500 VDC
Maximum serial rate	115.2 Kbps per port
Combined serial throughput	460.8 Kbps across four ports
Modbus serial operation	Master RTU; slave ASCII or RTU
Modbus TCP assignment	NET 1 and NET 2
TriStation access	NET 1, NET 2 or serial port 4
GPS interface assignment	Trimble GPS on serial port 1

Technical values were verified against Invensys 9700077-012, February 2009.

02 ADDITIONAL TECHNICAL DATA

TSAA multicast support	NET 1 and NET 2, UDP/IP
Peer-to-peer interface	UDP/IP on NET 1 and NET 2; DLC on NET 1
System TCM capacity	4 modules across 2 logical slots in chassis 1 or 2
Combined Modbus device capacity	16 masters or slaves per Tricon system, network and serial combined
Logic power	Less than 10 W, TCM specification table

03 SYSTEM ROLE AND APPLICATIONS

Match the installed TCM generation, logical slot and protocol assignment before replacement. The two modules in a logical slot operate independently rather than as hot spares. Removing a TCM stops all communication through that module even when the controller remains online.

- Connect serial Modbus master or slave equipment through the configured RS-232/RS-485 interface. Assign numeric aliases to the Tricon variables that external Modbus devices must read or write.
- Use the documented NET 1 or NET 2 protocol assignment for Modbus TCP or TSAA host communication. Match the copper Ethernet connection and configured addressing to the approved network design.
- Use the supported Trimble GPS interface on serial port 1 or the documented Ethernet time-synchronization protocol. Select the intended time source and port rather than assuming every serial port accepts GPS.

04 OFFICIAL INSTALLATION FACTS

- Verify Tricon v10.3 or later and the installed TCM model combination.
- Label and disconnect every communication cable before removing the faulty TCM.
- Plan for loss of all communication through the removed module.
- Seat the replacement firmly and tighten fasteners to 10 inch-pounds.

05 OFFICIAL DOCUMENTATION

Invensys 9700077-012, February 2009

AMIKON PRODUCT SUPPORT

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