

4329

Network Communication Module

CONTROLLED ENGINEERING COPY

Identify NET 1 and NET 2 services, save alias and host settings, verify coax termination and segment length, then restore communication while monitoring port-specific TX/RX status.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	4329
Manufacturer part	4329
Hardware type	4329; 4329G
System family	Tricon Ethernet communication



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01 PRE-INSTALLATION PLAN

- 1

Verify 4329 and its logical-slot assignment before disconnecting the network.
- 2

Label NET 1, NET 2, both BNC connectors, and any external transceiver cables.
- 3

Maintain RG58 50-ohm cabling and the approved coaxial termination topology.
- 4

Preserve the distinction between peer/time traffic on NET 1 and host traffic on NET 2.
- 5

Export TSAA host addresses, aliases, and synchronization settings before replacement.

MATCHED HARDWARE

- Tricon logical communication slot
- RG58 50-ohm thin Ethernet segment
- TSAA-capable host application
- peer Tricon controllers or time master

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	4329 / 4329 recorded
Physical interface	Tricon logical communication slot
Companion check	RG58 50-ohm thin Ethernet segment
Functional proof	Connects Tricon controllers and external hosts over 10 Mbit/s IEEE 802.3 Ethernet
Application test	Tricon peer-to-peer safety data network

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module models	4329; 4329G
Ethernet standard	IEEE 802.3
Ethernet speed	10 Mbit/s
BNC Ethernet ports	2
Thin coaxial cable	RG58; 50 Ohm
External transceiver ports	2 x 15-pin D
Serial port	1 x RS-232 compatible
Port isolation	500 VDC
Protocol	TSAA over TCP/UDP/IP/802.3
Typical RG58 distance	607 ft (185 m)
Extended distance	2.5 mi (4000 m) with repeaters and standard cable
Modules per logical slot	2 independent NCMS
NET 1 function	Peer-to-Peer and Time Synchronization
NET 2 function	TriStation, SOE, OPC, DDE, and host applications

FIELD NOTE

Identify NET 1 and NET 2 services, save alias and host settings, verify coax termination and segment length, then restore communication while monitoring port-specific TX/RX status.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	4329 / 4329 recorded
Physical interface	Tricon logical communication slot
Companion check	RG58 50-ohm thin Ethernet segment
Functional proof	Connects Tricon controllers and external hosts over 10 Mbit/s IEEE 802.3 Ethernet
Application test	Tricon peer-to-peer safety data network

04 RETURN-TO-SERVICE RECORD

- ☐
- Treat two NCMs in one logical slot as independent modules, not a hot-spare pair.
- ☐
- Check PASS, FAULT, ACTIVE, and each TX/RX indicator after link restoration.
- ☐
- Verify peer data, controller time, and each external host application before release.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page
Triconex 4210	Remote Extender Module Set	Open product page
Triconex 3008	Main Processor Module	Open product page

SOURCE IDENTIFIERS

Tricon Systems Technical Product Guide
9791007-013

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