Triconex 4329G

01 Product role and installation boundary

What this product does

The 4329G Network Communication Module connects an approved Tricon controller to its communication environment. Two BNC coaxial ports carry the documented network paths; a separate RS-232-compatible port serves a distinct serial connection.

The original 4329G compatibility statement stops at Tricon v10.x or earlier. A module that physically fits a later chassis is not thereby qualified for that controller release. Keep the host version, node identity, cable routes, 50-ohm terminations and approved protocol settings in the change record.

After replacement, use Pass, Fault and Active indications together with the transmit and receive indications for each network port. The acceptance check is successful communication along the intended paths, not simply a healthy front-panel light.

Installed-system path

1. **Tricon controller**
2. **4329G NCM**
3. **Coax network**
4. **Approved peers**

Selection and pre-work reference

Network ports	2 BNC ports
Network cable	RG58, 50 ohm thin coaxial
Serial interface	1 RS-232-compatible port
Port isolation	500 V DC
Communication speed	10 Mbit/s

Where this configuration is applied

Controller peer communication:

Use within a compatible Tricon network that needs peer-to-peer data exchange.

Engineering access:

Use the supported TriStation connection within the approved plant network architecture.

The 4329G shares the stated NCM table with 4329; system-version compatibility is limited by the source to Tricon v10.x or earlier.

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02 Parameters and controlled replacement

Verified technical data

Logic power	<20 W
Supported protocols	Peer-to-Peer, Time Synchronization, TriStation, TSAA
Tricon version scope	v10.x or earlier
Module status indicators	Pass, Fault and Active
Per-port indicators	1 TX and 1 RX per network port
External transceiver ports	Unused
Chassis slot keys	Top 001; bottom 003

How to apply the published ratings

The two BNC connectors are network ports; the RS-232-compatible port is a separate service interface. Do not transfer cable or protocol assumptions from one connection type to the other. Preserve both coax paths and their 50-ohm termination scheme.

The listed communication protocols are available in the documented NCM architecture, but only configured, approved traffic should be restored. Observe status and transmit/receive indications alongside an actual peer or engineering-station exchange.

Installation and commissioning sequence

01 Check firmware scope

Verify the host is within the published v10.x-or-earlier range.

02 Inspect coax

Confirm RG58 50-ohm cable and proper termination.

03 Record network identity

Capture node and port assignments before exchange.

04 Preserve serial settings

Document the RS-232 service connection parameters.

05 Observe isolation

Use the approved Tricon maintenance procedure.

06 Check LED sequence

Verify Pass, Fault, Active, TX and RX states after restoration.

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03 Fault isolation and acceptance

If the restored function does not behave as expected

01 Which protocol choices are relevant to 4329G?

Peer-to-Peer, Time Synchronization, TriStation and TSAA are listed; enable only those approved for the installed architecture.

02 What should be backed up before replacing 4329G?

Record controller version, network node identity, port allocation and engineering-station settings.

03 How is the RS-232 port on 4329G distinguished from the BNC ports?

It is a separate serial interface; use its own cable and settings rather than coax network assumptions.

04 What isolation rating applies to 4329G ports?

The published NCM table gives 500 VDC for network and RS-232 ports; installation still follows site isolation rules.

05 What acceptance evidence should follow 4329G replacement?

Record stable module status, traffic on the expected ports and successful approved application communications.

Acceptance and handover evidence

Network topology	Check the two 50-ohm coaxial paths and terminations.
Protocol commissioning	Enable only approved peer, time and engineering connections.
Version qualification	Confirm controller firmware is within the published 4329G scope.

Network version: Confirm Tricon v10.x or earlier and both 50-ohm coaxial routes before exchange.

Other catalogue references

The references below are navigation aids, not confirmed substitutes. Review each against the installed system.

Triconex 4119A

Triconex 8312

Triconex 3510

Technical basis: Triconex Planning and Installation Guide for Tricon v9–v11 Systems, NCM Models 4329 and 4329G specifications.

For the exact offered unit, request current marking and connector photographs and retain the approved as-found configuration with the acceptance record.