Triconex 4329G

01 Identity, function and installed-system path

Triconex 4329G is a Network Communication Module for supported Tricon systems. Its two coaxial network ports and serial service interface connect the controller to the documented Tricon communication environment.

How this product fits into the system

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

Network role

The module presents two BNC network connectors for RG58 50-ohm thin coaxial cable and one RS-232-compatible serial port. The 10 Mbit/s network path supports controller peer exchange, time synchronization and approved engineering or application communications.

Version boundary

The original 4329G specification limits system compatibility to Tricon v10.x or earlier. This is a hard version boundary: a later controller release must not be assumed compatible from connector fit alone.

Service evidence

Network health is indicated by module Pass, Fault and Active status and by transmit and receive indications on each network port. Service work should document node identity, coax termination, host firmware and software communication settings before removing the module.

Evidence boundary

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 Ratings, interfaces and applicable limits

Verified technical specifications

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
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

Applying these values

The communication and version data apply to the 4329G NCM within the stated Tricon version scope. Verify the configured network architecture and both coaxial paths.

Technical boundary

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03 Application decisions and compatibility

Where the product is used

01 Controller peer communication

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

02 Engineering access

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

03 Time coordination

Apply the documented time-synchronization protocol where the installed system design uses it.

04 Legacy Tricon replacement

Match the v10.x-or-earlier host release, BNC cabling and network configuration before substitution.

Compatibility decisions before use

Check firmware scope:
Verify the host is within the published v10.x-or-earlier range.

Inspect coax:
Confirm RG58 50-ohm cable and proper termination.

Record network identity:
Capture node and port assignments before exchange.

Preserve serial settings:
Document the RS-232 service connection parameters.

Observe isolation:
Use the approved Tricon maintenance procedure.

Check LED sequence:
Verify Pass, Fault, Active, TX and RX states after restoration.

Engineering decision record

Host baseline	Retain the Tricon release, configured node identity and approved network diagram.
Cable path	Document both installed coaxial runs and their terminations before module exchange.
Acceptance evidence	Capture module status, port activity and verified peer communication after restoration.

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04 Eight engineering questions beyond the table

01 Can 4329G be used on a Tricon v11 system?

The cited 4329G specification states compatibility with v10.x or earlier; do not assume v11 operation.

02 What cable must be checked for 4329G network ports?

The original table specifies RG58 50-ohm thin coaxial cable; check both cable type and network terminations.

03 How can loss of one network path on 4329G be isolated?

Compare TX and RX indications, connector seating, coax continuity and the remote network segment.

04 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.

05 What should be backed up before replacing 4329G?

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

06 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.

07 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.

08 What acceptance evidence should follow 4329G replacement?

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

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05 Selection boundary and service handover

Identify the offered assembly

Compare the full 4329G marking, visible revision and physical interfaces with the installed item. Request current overall, label and connector photographs, and retain the exact quoted reference in the maintenance record.

Lifecycle and replacement assessment

Confirm current manufacturer support and replacement status for the complete marking and revision. Seller stock and dispatch availability are separate quotation matters; approve interchangeability against the actual host, software and site drawings.

Companion equipment and supply scope

Record the host, cables, mating connectors, accessories and documents needed for the installed arrangement. Confirm the delivered items individually in the quotation; a compatible companion shown in the system path is not automatically included.

Engineering handover

Keep the as-found hardware identities, approved configuration, before-and-after measurements, diagnostic results and completed acceptance record together. Validate the affected process or communication path before returning the equipment to service.

Related product references

These are other catalogue references, not confirmed substitutes. Assess fit independently.

Triconex 4119A

Triconex 8312

Triconex 3510

Discuss the exact product and installed configuration

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

Order review record

Before release: confirm host release, 4329G revision, coaxial connections and the configured network architecture.