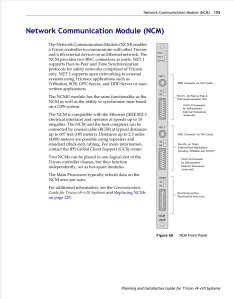


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Triconex 4329G

Network Communication Module



PORTS	CABLE	RATE	SOURCE
2 BNC	RG58, 50 ohm	Up to 10 Mbps	9720077-012

Triconex 4329G is a Network Communication Module with GPS-based time-synchronization capability. It connects a Tricon controller to other Tricons and external Ethernet hosts through two BNC network ports using RG58 50-ohm coaxial cable.

01 VERIFIED PRODUCT PARAMETERS

Network connectors	Two BNC ports
Network cable	RG58, 50-ohm coaxial thin cable
Ethernet electrical interface	IEEE 802.3
Communication speed	Up to 10 Mbps
Typical direct coaxial distance	Up to 185 m (607 ft)
Extended network distance	Up to 4000 m using repeaters and standard thick-net cabling
External transceiver ports	Not used
Serial interface	One RS-232-compatible port
Port isolation	500 VDC for network and RS-232 ports
NET 1 role	Tricon-only Peer-to-Peer and Time Synchronization

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

02 ADDITIONAL TECHNICAL DATA

NET 2 role	External host networking and TSAA applications
NCMG time reference	GPS-based time synchronization
Processor data refresh	Typically once per scan
Logical-slot operation	Two NCMs operate independently; not hot-spare modules
Logic power	Less than 20 W

03 SYSTEM ROLE AND APPLICATIONS

NET 1 serves the documented Tricon-only peer and time-synchronization network; NET 2 serves external host applications. Preserve the network address switches and coaxial terminations during replacement. Paired NCMs operate independently, and communication through a removed module stops.

- Use NET 1 for the documented Peer-to-Peer network composed only of Tricon controllers. Check the logical-slot configuration because the two-slot NCM arrangement excludes Peer-to-Peer operation.
- Use NET 2 for documented external host applications such as TriStation and SOE tools. Preserve the coaxial network and its end terminations when servicing a module to avoid disrupting other devices.
- Use the NCMG capability to synchronize time from a GPS system within the documented system design. Confirm the installed time-reference arrangement instead of treating the ordinary NCM serial connector as a general-purpose device port.

04 OFFICIAL INSTALLATION FACTS

- Record the exact module identity and network-address switch setting.
- Disconnect module communication cables without breaking network end terminations.
- Expect all communication through the removed NCM to cease.
- Copy the original address switch setting to the replacement before insertion.

05 OFFICIAL DOCUMENTATION

Invensys 9700077-012, February 2009

AMIKON PRODUCT SUPPORT

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