4201N

Remote Extender Module

EXACT PUBLISHED IDENTITY

TRICONEX 4201N is the nuclear-qualified Remote Extender Module mapped to the standard fiber-optic 4201 platform. It is used at remote RXM chassis locations in a qualified Tricon expansion path.

Technical snapshot

Product role	Remote fiber-optic Remote Extender Module
Qualified designation	4201N
Standard-model mapping	4201
Set designation	4201-3 remote RXM set
Installed location	Remote RXM chassis
Remote medium	Point-to-point fiber-optic cabling
Maximum published distance	7.5 miles (12 km)
RXM power modules	Two per RXM chassis

Engineering data

Verified exact-model values from official manufacturer evidence

Published characteristics

RXM I/O capacity	Six I/O module slot sets
Minimum I/O population	At least one I/O module per RXM chassis
Qualification class	Tricon v10 nuclear 1E equipment table
Connector control	Transmit, receive and ST locking records

EVIDENCE BOUNDARY

Confirm the complete 4201N identity, installed system record and approved companion hardware before replacement or commissioning.

ENGINEERING CONTROL

For 4201N, the verified dataset records qualified designation as 4201N and standard-model mapping as 4201. These values must be applied only after the complete installed marking, cabinet record and approved system architecture have been reconciled.

Verified related ApterPower product pages

- TRICONEX 3502E
- TRICONEX 3503E
- TRICONEX 3504E
- TRICONEX 3511
- TRICONEX 3624
- TRICONEX 3664
- TRICONEX 3703E
- TRICONEX 3704E

System role and applications

Documented contexts without configuration inference

INSTALLED TRICON SYSTEMS

Controlled service where the approved system records explicitly identify 4201N.

PLANNED MAINTENANCE

Like-for-like inspection or replacement work that preserves the documented remote extender module arrangement.

LIFECYCLE-MANAGED SPARES

Exact-identity spare control for operating installations that retain the TRICONEX 4201N designation.

COMMISSIONING VERIFICATION

Functional checks that confirm the recorded interface, configuration and diagnostics after 4201N is installed.

Integration control

Manufacturer procedures assign 4201 remote sets to RXM chassis at remote locations and connect the Transmit and Receive paths by fiber. The published architecture supports distances up to 7.5 miles from the Main Chassis and requires at least one I/O module in each RXM chassis. Cable identity, channel routing and indicator response must be checked after replacement.

Technical questions

Complete answers tied to the exact published model

What function does TRICONEX 4201N perform?

TRICONEX 4201N performs the documented role of a remote extender module within the applicable installed-system architecture.

Which qualified designation is specified for 4201N?

The manufacturer specifies the qualified designation for 4201N as 4201N.

How does the manufacturer define the standard-model mapping of 4201N?

The manufacturer specifies the standard-model mapping for 4201N as 4201.

What set designation applies to the TRICONEX 4201N?

The manufacturer specifies the set designation for 4201N as 4201-3 remote RXM set.

Where does 4201N fit with respect to installed location?

The manufacturer specifies the installed location for 4201N as Remote RXM chassis.

Why must the remote medium be checked on 4201N?

The manufacturer specifies the remote medium for 4201N as Point-to-point fiber-optic cabling.

When replacing 4201N, which maximum published distance must match the record?

The manufacturer specifies the maximum published distance for 4201N as 7.5 miles (12 km).

What does the manual state about the rxm power modules for 4201N?

The manufacturer specifies the rxm power modules for 4201N as Two per RXM chassis.

Product precautions

Eight controlled checks before return to service

1. Record the complete TRICONEX 4201N marking and installed position before work.
2. Place the controller and affected process function in the approved safe maintenance state.
3. Verify the documented system version, companion hardware and interface assigned to 4201N.
4. Isolate the applicable controller and field energy in accordance with the approved procedure.
5. Inspect connectors, keys, cable assemblies and mechanical retention before installation.
6. Install 4201N only in the recorded location without changing the approved architecture.
7. Restore power under control and confirm the specified indicators, communications and diagnostics.
8. Document the final identity, configuration and functional acceptance results before release.

Manufacturer evidence used

- TRICONEX Planning and Installation Guide for Tricon v9-v11 Systems, document 9720100-012.
- TRICONEX Technical Product Guide, document 9791007-013.
- TRICONEX Field Terminations Guide for Tricon v9-v10 Systems, document 9700052-018.

Verified related ApterPower product pages

- TRICONEX 4210
- TRICONEX 4329
- TRICONEX 4119A
- TRICONEX 8312

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