4201N

Exact-identity installation and commissioning guide

PRODUCT SCOPE

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.

Verified installation basis

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)

Verified related ApterPower product pages

TRICONEX 3502E

TRICONEX 3503E

Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete TRICONEX 4201N marking and installed position before work.
- Place the controller and affected process function in the approved safe maintenance state.
- Verify the documented system version, companion hardware and interface assigned to 4201N.
- Isolate the applicable controller and field energy in accordance with the approved procedure.
- Inspect connectors, keys, cable assemblies and mechanical retention before installation.
- Install 4201N only in the recorded location without changing the approved architecture.

HOLD POINT

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

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

TRICONEX 3504E

TRICONEX 3511

TRICONEX 3624

TRICONEX 3664

TRICONEX 3703E

TRICONEX 3704E

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete TRICONEX 4201N marking and installed position before work.

2 ISOLATE

Place the controller and affected process function in the approved safe maintenance state.

3 RECORD

Verify the documented system version, companion hardware and interface assigned to 4201N.

4 VERIFY

Isolate the applicable controller and field energy in accordance with the approved procedure.

5 INSTALL

Inspect connectors, keys, cable assemblies and mechanical retention before installation.

6 RESTORE

Install 4201N only in the recorded location without changing the approved architecture.

CONFIGURATION 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.

Verified related ApterPower product pages

TRICONEX 4210

TRICONEX 4329

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete TRICONEX 4201N marking and installed position before work.
Configuration	Install 4201N only in the recorded location without changing the approved architecture.
Physical installation	Restore power under control and confirm the specified indicators, communications and diagnostics.
Functional acceptance	Document the final identity, configuration and functional acceptance results before release.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

- TRICONEX 4119A
- TRICONEX 8312
- TRICONEX 4000188-320
- TRICONEX 4000188-310

Handover record

Traceable evidence for the installed product

Final acceptance

- Inspect connectors, keys, cable assemblies and mechanical retention before installation.
- Install 4201N only in the recorded location without changing the approved architecture.
- Restore power under control and confirm the specified indicators, communications and diagnostics.
- 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 8311

TRICONEX 4329G

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