

4210

Primary Single-Mode Fiber Remote Extender Module

CONTROLLED ENGINEERING COPY

Treat 4210 as one channel of the three-module primary set, match every transmit/receive fiber to the corresponding remote channel, and verify RX1-RX3 plus TX diagnostics end to end.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	4210
Manufacturer part	4210
Hardware type	4210-3
System family	Tricon remote I/O extension



APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



01 PRE-INSTALLATION PLAN

- 1

Verify 4210 and its channel position within the 4210-3 primary set.
- 2

Place the remote I/O path and dependent safety functions in the approved maintenance state.
- 3

Label every transmit and receive fiber before removing an ST connector.
- 4

Use single-mode fiber and preserve the engineered optical link budget and route.
- 5

Clean and inspect ST end faces with approved fiber practices.

MATCHED HARDWARE

- three-module 4210-3 primary set
- matching remote single-mode RXM set
- ST-connector single-mode fiber pairs
- remote Tricon I/O chassis

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	4210 / 4210 recorded
Physical interface	three-module 4210-3 primary set
Companion check	matching remote single-mode RXM set
Functional proof	Extends the triplicated Tricon I/O bus from the primary chassis to remote sites
Application test	Remote shutdown I/O building connection

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Official set designation	4210-3
Chassis location	Primary
Cable type	Single-mode fiber
Communication rate	375 kbit/s
Cable length limit	7.5 mi (12 km)
Remote sites supported	3
Connectors per remote site	6
Modem ports	Fiber optic with ST connectors
Set quantity	3 identical modules
Indicators	PASS; FAIL; ACTIVE; TX; RX1; RX2; RX3

FIELD NOTE

Treat 4210 as one channel of the three-module primary set, match every transmit/receive fiber to the corresponding remote channel, and verify RX1-RX3 plus TX diagnostics end to end.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	4210 / 4210 recorded
Physical interface	three-module 4210-3 primary set
Companion check	matching remote single-mode RXM set
Functional proof	Extends the triplicated Tricon I/O bus from the primary chassis to remote sites
Application test	Remote shutdown I/O building connection

04 RETURN-TO-SERVICE RECORD

- ☐ Maintain channel A/B/C correspondence across all six fibers for each remote site.
- ☐ Check PASS, FAIL, ACTIVE, TX, and RX1-RX3 indications after restoration.
- ☐ Exercise remote input and output paths before returning the site to service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page
Triconex 4329	Network Communication Module	Open product page
Triconex 3008	Main Processor Module	Open product page

SOURCE IDENTIFIERS

Tricon Systems Technical Product Guide
9791007-013

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