

4119A

Enhanced Intelligent Communication Module

Triconex 4119A is an isolated Enhanced Intelligent Communication Module. It exchanges Tricon variables with Modbus, TriStation, and printer interfaces.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon communication

PART

4119A

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PRODUCT OVERVIEW

Triconex 4119A is an isolated Enhanced Intelligent Communication Module. It exchanges Tricon variables with Modbus, TriStation, and printer interfaces.

1 Connects the Tricon controller to Modbus masters, slaves, TriStation, and printers

2 Runs four serial ports and one parallel port concurrently

3 Maps controller variables to five-digit Modbus aliases assigned in TriStation

4 Supports point-to-point RS-232 and multidrop RS-485 network arrangements

SYSTEM COMPONENTS

Tricon main chassis logical communication slot

RS-232/RS-422/RS-485 field network

TriStation engineering station

Modbus devices with assigned aliases

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 4329	Network Communication Module	Open product page
Triconex 4210	Remote Extender Module Set	Open product page
Triconex 3008	Main Processor Module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Module execution	4119A isolated
Serial ports	4
Serial interfaces	RS-232; RS-422; RS-485
Parallel ports	1 isolated Centronics
Port isolation	500 VDC
Protocols	TriStation; Modbus
Modbus modes	RTU; ASCII
Serial speeds	1200; 2400; 9600; 19200 baud

PARAMETER	VALUE
Aggregate data rate	57.6 kbit/s
RS-485 slaves	Up to 32
RS-485 trunk length	4000 ft (1200 m) maximum
EICMs per Tricon system	2 maximum in one logical slot
Hot-spare operation	Not supported
Online replacement	Supported
Indicators	PASS; FAULT; ACTIVE; TX/RX per serial port

TECHNICAL NOTE

Record port mode, baud rate, station addressing, alias assignments, and termination before replacing 4119A; restore each interface separately and review TX/RX diagnostics.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Modbus master connection to a Tricon controller

Connects the Tricon controller to Modbus masters, slaves, TriStation, and printers

Multidrop RS-485 slave integration

Runs four serial ports and one parallel port concurrently

TriStation serial engineering access

Maps controller variables to five-digit Modbus aliases assigned in TriStation

Event or alarm printing through Centronics

Supports point-to-point RS-232 and multidrop RS-485 network arrangements

PRODUCT PRECAUTIONS

- 1 Verify 4119A and the exact logical communication slot before module removal.
- 2 Record the selected electrical interface and protocol for each of the four serial ports.
- 3 Isolate or silence connected serial devices before moving RS-232, RS-422, or RS-485 cables.
- 4 Preserve RS-485 polarity, termination, trunk length, and station addressing.
- 5 Export the TriStation alias list used by every Modbus read or write.
- 6 Do not configure two EICMs as a hot-spare pair; they operate without that feature.
- 7 Restore one port at a time and verify the corresponding TX and RX indicators.
- 8 Confirm permitted Modbus functions and printer output before returning communications to service.

ENGINEER FAQ

Q1 Which diagnostics should be reviewed after installing 4119A?

Review the applicable point, module, power, communication, or load indicators for 4119A, then confirm the intended role: connects the tricon controller to modbus masters, slaves, tristation, and printers.

Q2 Can 4119A be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.

Q3 What evidence should be retained after non-hot-spare dual-EICM arrangement testing on 4119A?

Retain the full 4119A identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q4 Which installed hardware must be matched before fitting 4119A?

Match 4119A to Tricon main chassis logical communication slot and RS-232/RS-422/RS-485 field network, then confirm the complete physical marking and assigned Tricon communication position.

Q5 How should an engineer verify four serial-port configuration for 4119A?

Use the approved connection drawing and the model-specific values in Tricon Systems Technical Product Guide; preserve the as-found terminal, connector, polarity, shield, and channel identity.

Q6 What check is required for five-digit Modbus aliases when commissioning 4119A?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

Q7 Which installation error is most important to prevent on 4119A?

Do not interchange 4119A with an adjacent execution or alter its matched Tricon main chassis logical communication slot; the exact electrical, channel, and connector arrangement must be retained.

Q8 How is RS-485 multidrop limits handled during a 4119A replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.