

INDUSTRIAL AUTOMATION PRODUCT

4119A

Enhanced Intelligent Communication Module

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

IDENTITY	VERIFIED VALUE
Manufacturer	Triconex
System family	Tricon communication
Part number	4119A
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Triconex product record.

PARAMETER	TECHNICAL 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
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

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System Role and Architecture

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

FUNCTION 1

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

FUNCTION 2

Runs four serial ports and one parallel port concurrently

FUNCTION 3

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

FUNCTION 4

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

Matched system components

- Tricon main chassis logical communication slot
- RS-232/RS-422/RS-485 field network
- TriStation engineering station
- Modbus devices with assigned aliases

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Tricon main chassis logical communication slot
Companion hardware	RS-232/RS-422/RS-485 field network
Field connection	TriStation engineering station
Primary system function	Connects the Tricon controller to Modbus masters, slaves, TriStation, and printers
Controlled acceptance duty	Modbus master connection to a Tricon controller

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	4119A / 4119A recorded
Physical interface	Tricon main chassis logical communication slot
Companion check	RS-232/RS-422/RS-485 field network
Functional proof	Connects the Tricon controller to Modbus masters, slaves, TriStation, and printers
Application test	Modbus master connection to a Tricon controller

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

Tricon Systems Technical Product Guide

9791007-013

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