



4701X

Serial-to-Serial I/O Bus Interface Module

Product scope

- Implements a serial-to-serial I/O bus interface for the Tricon CX architecture.
- Extends triplicated chassis communication through documented serial I/O bus cables.
- Consumes less than one watt of logic power in the published configuration.

Manufacturer source

Schneider Electric Tricon CX Addendum to Tricon User Guides 9791042-002 Rev. 3.

This web-optimized copy retains only product-relevant manufacturer information.

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4701X verified technical reference

Serial-to-Serial I/O Bus Interface Module

Exact product identity

Triconex 4701X is a Tricon CX serial-to-serial I/O bus interface module used to extend triplicated controller communication through compatible chassis paths.

Manufacturer	Triconex
Model	4701X
Product family	Tricon CX
Product type	I/O Bus Interface Module
Module type	IMSS I/O Bus Interface Module
Media	Serial-to-serial
System family	Tricon CX
Logic power	Less than 1 W
Architecture	Triplicated I/O bus interface
Chassis role	I/O bus expansion interface

Manufacturer source

Schneider Electric Tricon CX Addendum to Tricon User Guides 9791042-002 Rev. 3.

Only facts that can be matched to the exact ordering code are included in this product reference.



4701X engineering review

Serial-to-Serial I/O Bus Interface Module

Configuration and integration

Triconex 4701X is the serial-to-serial I/O Bus Interface Module identified as IMSS in Tricon CX documentation. It occupies the interface positions that couple a main-chassis I/O bus to expansion hardware.

The module preserves the triplicated I/O communication structure through serial media. Status indicators allow maintenance staff to observe interface operation and diagnose a disrupted bus path.

Both upstream and downstream cable types, chassis addresses and redundant module positions must match the engineered topology. The IMSS must not be exchanged with a fiber-interface model solely because their chassis roles appear similar.

Installation attention

4701X is a serial-media IMSS; verify both I/O-bus cable ends and chassis addressing before substitution with any other interface type.

Verified functional points

Applications

- Extends the I/O bus from the main chassis to compatible Tricon CX expansion hardware.
- Maintains serial media where the project does not require a fiber-optic I/O bus segment.
- Supports cabinet expansion layouts that depend on triplicated chassis-to-chassis communication.

I/O Bus

- The IMSS function transfers Tricon CX I/O bus traffic across serial media.
- Triplicated communication paths align with the controller's fault-tolerant architecture.
- The interface belongs to the designated chassis bus positions, not to a standard I/O slot.

Serial Links

- Both sides of this model use the documented serial I/O bus connection method.
- Cable assemblies must retain the connector style and length limits engineered for the chassis run.
- Indicators help identify the state of each interface path during maintenance.

Expansion

- Chassis address plugs establish the logical location of hardware reached through the I/O bus.
- Redundant interface positions should be reviewed as a complete group before one module is changed.
- A serial-to-fiber or fiber-to-fiber design requires a different I/O bus interface model.

Source record

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