



4703X

Fiber-to-Fiber I/O Bus Interface Module

Product scope

- Provides fiber-optic media on both sides of the Tricon CX I/O bus interface.
- Extends triplicated chassis communication through an optically isolated path.
- Uses less than eight watts of logic power in the documented system design.

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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4703X verified technical reference

Fiber-to-Fiber I/O Bus Interface Module

Exact product identity

Triconex 4703X is a Tricon CX fiber-to-fiber I/O bus interface module for optically linked expansion-chassis communication.

Manufacturer	Triconex
Model	4703X
Product family	Tricon CX
Product type	Fiber I/O Bus Interface Module
Module type	IMFF I/O Bus Interface Module
Media	Fiber-to-fiber
System family	Tricon CX
Logic power	Less than 8 W
Architecture	Triplicated optical I/O bus
Chassis role	Fiber 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.



4703X engineering review

Fiber-to-Fiber I/O Bus Interface Module

Configuration and integration

Triconex 4703X is the IMFF interface that uses fiber media on both sides of a Tricon CX I/O bus connection. It provides an optical expansion path while retaining the triplicated controller bus architecture.

Fiber links support chassis separation and electrical isolation advantages within the approved topology. Interface indicators assist technicians in identifying active, failed or disconnected optical paths.

Transceiver type, fiber mode, connector cleaning, bend radius and chassis address must agree with the installation design. A serial 4701X cannot replace this fiber-to-fiber configuration without re-engineering the bus path.

Installation attention

4703X depends on matched optical media; confirm fiber type, transceivers, connector condition and bend radius before energizing the I/O bus.

Verified functional points

Applications

- Connects Tricon CX chassis across plant areas where fiber is preferred for distance or electrical isolation.
- Maintains optical I/O bus segments through cabinet and field-routing boundaries.
- Supports redundant expansion topologies that require a fiber-to-fiber interface at the chassis.

Fiber I/O

- The IMFF design preserves optical media at both the incoming and outgoing I/O bus connections.
- Fiber communication avoids a direct conductive path between separated chassis locations.
- Triplicated channels maintain the redundancy expected by the Tricon CX bus architecture.

Optical Links

- Connector faces must be inspected and cleaned before an optical cable is seated.
- Fiber type and transceiver characteristics must match at both ends of every path.
- Route design should respect the cable's minimum bend radius and loss budget.

Topology

- The interface position and chassis address determine where the optical segment appears in the system.
- All redundant paths should follow the approved expansion-chassis connection sequence.
- Changing to serial media requires a compatible interface module and revised cable design.

Source record

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



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