



8120X

Tricon CX Main Chassis

Product scope

- Houses three 3009X main processors in the Tricon CX TMR architecture.
- Provides two communication slots with left and right module positions.
- Connects triplicated I/O bus channels to 8131X expansion chassis hardware.

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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8120X verified technical reference

Tricon CX Main Chassis

Exact product identity

Triconex 8120X is the Tricon CX main chassis for three 3009X processors, redundant communication positions and triplicated I/O bus expansion.

Manufacturer	Triconex
Model	8120X
Product family	Tricon CX
Product type	Main Chassis
Chassis type	Tricon CX main chassis
Main processors	Three 3009X positions
Communication slots	COM1 and COM2; left/right positions
System power	24 VDC redundant
I/O bus	Triplicated RS-485
Expansion chassis	8131X supported
Operating temperature	-20°C to +60°C
Operating temperature with 4610X	0°C to +55°C
Relative humidity	5% to 95%, non-condensing
Operating altitude	Up to 2000 m

Manufacturer source

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



8120X engineering review

Tricon CX Main Chassis

Configuration and integration

Triconex 8120X is the main chassis that organizes Tricon CX processor, communication and I/O bus functions. It accepts three 3009X main processors and provides two communication slots with left and right module positions.

The chassis distributes redundant 24 VDC system power and presents triplicated RS-485 I/O bus links to compatible expansion hardware. Front-panel alarm circuits report baseplate and power conditions to the surrounding system.

Rack or panel mounting must maintain the published clearances, airflow and safety-ground connections. Confirm communication-module type because a chassis fitted with a 4610X has a lower maximum operating temperature.

Installation attention

8120X cabinet design must use the correct temperature limit: 60°C normally, or 55°C when a 4610X UCM is installed.

Verified functional points

Applications

- Forms the central controller chassis for emergency shutdown, fire-and-gas and other SIL applications.
- Hosts redundant communication modules that connect the controller to engineering and plant networks.
- Feeds multiple I/O expansion chassis through the documented triplicated bus topology.

Chassis Layout

- Three dedicated positions accept the 3009X main processors used by the TMR controller.
- COM1 and COM2 each provide left and right physical positions for supported communication modules.
- The baseplate routes processor, communication, power and alarm signals through the main frame.

Redundancy

- Two independent 24 VDC feeds support the documented redundant system-power arrangement.
- Triplicated I/O bus paths maintain separate communication channels to expansion chassis hardware.
- Matched communication modules can occupy paired left and right positions where the configuration permits.

Installation

- The chassis can be mounted to a rack or panel using the specified brackets and clearances.
- Safety ground and functional earth connections must follow the dedicated chassis terminals.
- Cabinet airflow must keep inlet temperature within the limit for the installed communication-module set.

Source record

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



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