



8111

Triconex I/O Expansion Chassis

Product scope

- Adds Tricon I/O and communication-module capacity beyond the main chassis.
- Provides dual connector sets for the triplicated A, B and C expansion buses.
- Accepts the documented Tricon power-module options and keyed module slots.
- The current configuration is the 8111 local I/O Expansion Chassis, distinct from the main and remote-expansion chassis models.

Official source basis

Schneider Electric / Triconex Tricon Product Guide, Chassis Options and System Configuration sections.

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	Triconex 8111	

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8111 technical profile

Triconex 8111 is the standard expansion chassis used to extend a Tricon controller beyond the main chassis. Its backplane distributes logic power and the triplicated I/O bus to installed modules.

Six RS-485 expansion-bus ports provide two connector sets for channels A, B and C. This arrangement carries voted I/O traffic between expansion hardware and the three main processors at the specified bus rate.

System design must account for cable-set type, chassis address, slot population, power-module capacity and communication-module placement. Grounding and airflow must be completed before any I/O module is energized.

Selection notice

8111 addressing, triplicated I/O-bus cabling and worst-case power loading must be verified before installed modules are energized.

Technical specifications

Chassis role	Local I/O expansion
Expansion-bus standard	RS-485
Bus channels	A, B and C, triplicated
Bus connector sets	2
Expansion-bus ports	6
I/O bus rate	375 kbit/s
Communication bus rate	2 Mbit/s
Standard cable set	9000
I/O-COMM cable set	9001 when required
Power-module positions	Two dedicated positions
Power redundancy	Dual module capability
Module positions	Keyed logical slots
Grounding	Protective earth required
Chassis addressing	Hardware address selection
Power design basis	Worst-case single supply at 60 °C
Operating temperature	0 to 60 °C
Storage temperature	-40 to 85 °C
Relative humidity	5 to 95%, non-condensing
Installation environment	Industrial control enclosure

Application and integration notes

Integration	• The chassis must be mechanically secured with clearance for module insertion and cabinet airflow. • Triplicated expansion-bus cables connect channels A, B and C between the main and expansion backplanes. • Protective earth, logic power and the chassis address are completed before modules are commissioned.
Operating Environment	• Chassis power planning assumes the documented worst-case ambient condition of 60 °C. • Installed modules require a clean control enclosure with non-condensing humidity. • Cooling clearance must be maintained around densely populated racks and their power supplies.
Standards	• The triplicated expansion backplane follows the documented Tricon I/O and communication-bus architecture. • Chassis construction and module keying are part of the approved Tricon system hardware arrangement. • System certification remains dependent on the complete installed controller configuration rather than the empty rack alone.

Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



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