Triconex 3601E

Complete Product Information

01 Product dashboard

Triconex 3601E is a 16-point, non-commoned triple-modular-redundant digital-output module for 115 V AC field loads in a Tricon system. It uses a separate external termination panel.

Identity	Position	Evidence
Triconex 3601E	Tricon TMR controller / AC digital output	Triconex Technical Product Guide for Tricon Systems, 9791007-013

System context

This Tricon output module votes three processor-channel commands into field switching for 16 separate 115 V AC loads.

The 3601E is a TMR digital-output module with 16 non-commoned, optically isolated points. The Tricon backplane delivers each processor-channel command to the module, whose voter circuitry produces the output to a separate external termination panel. Field power is supplied at each termination point; the module is mechanically keyed for its configured chassis location and supports a hot spare in the documented architecture.

02 Technical capability map

Product role	TMR 115 V AC digital-output module
Output points	16, non-commoned
Nominal field voltage	115 V AC
Operating field range	80-155 V AC
Frequency range	47-63 Hz
Maximum point current	2 A per output
Surge rating	12 A per cycle
Maximum load leakage	2 mA at 60 Hz
Maximum chassis leakage	4 mA at 60 Hz
Field fuse	3 A fast-acting per output, on termination
Point isolation	1500 V DC for 3601E
Module indicators	PASS, FAULT, ACTIVE
Field alarm	LOAD/FUSE
Termination	Separate external termination panel

03 Applications and compatibility

Application	Engineering relationship
Discrete AC actuation	Switch an approved 115 V AC field device on one of the 16 separately wired points.
Fault-tolerant control	Use the voted TMR output path in a configured Tricon safety or process-control application.
Hot-spare service	Apply the documented hot-spare arrangement with the correct configured slot and termination cable.
Field diagnostics	Use point state and LOAD/FUSE indications to locate a load, fuse or field-voltage discrepancy.

Compatibility boundary

Match the exact 3601E execution, field fuse, terminal panel and load characteristics; the 3601T isolation note is separate.

For 3601E, the product guide specifies 115 V AC nominal, an 80-155 V AC operating range and 47-63 Hz. Each point is rated at a maximum 2 A, with 12 A surge per cycle. A 3 A fast-acting fuse belongs at each field termination. The 3601E point-isolation figure is 1500 V DC; the higher 2500 V DC figure in the shared table is explicitly marked for 3601T.

04 Engineering decisions and precautions

Decision	Required check
Isolate field power	Treat each 115 V AC output point as a separately powered circuit before handling the panel.
Match the E variant	Confirm 3601E and its configured chassis key; do not use 3601T isolation limits.
Check termination	Verify the external termination panel and backplane cable before commissioning.
Fit point fuses	Confirm one 3 A fast-acting fuse for each output on the field termination.
Assess the load	Keep steady and surge demand within 2 A per point and 12 A per cycle.
Prove diagnostics	Test commanded ON/OFF state, point indication and LOAD/FUSE alarms at the field device.

Question	Answer
How many output points does Triconex 3601E provide?	It has 16 non-commoned TMR digital-output points.
What field-voltage range applies to Triconex 3601E?	The guide specifies 115 V AC nominal and an 80-155 V AC operating range at 47-63 Hz.
What current can each Triconex 3601E output carry?	The maximum is 2 A per point, with a 12 A surge per cycle.

05 Lifecycle and offered unit

3601E	A current manufacturing and support phase for this exact output-module reference is unconfirmed.
Support and replacement	Confirm the configured Tricon slot, external termination panel, fuses and field-load ratings before selecting a replacement or hot spare.
Availability	Apter Power quoted availability is separate from the manufacturer lifecycle phase.

Condition	New, original product
Exact identity	Check the complete 3601E marking and the configured chassis position; 3601T carries a different isolation footnote.
Included items	Confirm the 3601E module and its connector condition; the external termination panel, cable and point fuses are separately identified in the offer.

Technical source

Triconex Technical Product Guide for Tricon Systems, 9791007-013

Discuss the complete reference

Triconex 3601E

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