

T8461C

Trusted TMR 24/48 Vdc Digital Output Module

PRODUCT TECHNICAL REFERENCE

ICS Triplex T8461C is a Trusted TMR 24/48 Vdc digital output module with 40 channels. It delivers monitored field outputs through five isolated power groups for safety and control functions.

OFFICIAL SOURCE

Trusted TMR 24/48 Vdc Digital Output Module 40 Channel | ICSTT-RM451D-EN-P,
March 2021

Verified technical profile

Trusted TMR 24/48 Vdc Digital Output Module

Backplane supply	20 to 32 Vdc
Backplane power	26 W
Field supply	18 to 58 Vdc
Field current	30 A maximum
Outputs	40
Power groups	5 groups of 8
On-state resistance	1.6 ohm
Channel current	0.75 A continuous
Minimum on-state load	25 mA
Current measurement	0 to 1.35 A
Voltage measurement	0 to 58 Vdc
Load capacitance	500 uF maximum
Short-circuit protection	Electronic latching
Operating temperature	0 to 60 deg C
Dimensions	266 x 31 x 303 mm

ENGINEERING USE OF THE VERIFIED DATA

The module mates with a Trusted I/O slot and the specified termination hardware; no stand-alone physical configuration is required, but the IEC 61131 Toolset definition must match the hardware. Commission by checking supplies, group returns, channel mapping, diagnostics and final-element response.

Verification focus: Confirm T8461C, hardware revision and the assigned Trusted slot.

Only values traceable to the listed manufacturer source are treated as verified technical data.

System role and engineering boundaries

ICS Triplex T8461C is a Trusted TMR 24/48 Vdc digital output module with 40 channels. It delivers monitored field outputs through five isolated power groups for safety and control functions.

1

Controls forty monitored DC output channels

2

Separates field circuits into five protected power groups

3

Measures channel voltage and current for diagnostic comparison

4

Provides latching electronic short-circuit protection

ENGINEERING NOTE

Install T8461C only in a T8100 or T8300 I/O-module slot with the matched field termination assembly and application definition. Preserve the five power-group boundaries, then verify channel current, voltage diagnostics and electronic short-circuit reset behavior during commissioning.

Industrial application matrix

Four source-supported operating contexts for this exact product.

48 Vdc trip circuits Drives higher-voltage protective outputs within the documented field-supply range.	Safety solenoid banks Controls grouped DC final elements while monitoring output voltage and current.
Redundant actuator commands Supports Trusted fault-tolerant output architectures with matched termination hardware.	Process interlock outputs Executes discrete safety and sequence commands through independently powered channel groups.
MODEL-SPECIFIC ACCEPTANCE FOCUS Confirm T8461C identity and revision, T8100/T8300 slot, termination assembly, five power-group supplies and returns, channel wiring, grounding, Toolset version, application mapping, protection reset and controlled final-element tests before commissioning.	

Related-series navigation

Eight verified Apter Power product pages, kept separate from the manufacturer source record.

RELATED APTER POWER SERIES PAGES	
01	T9110 Apter Power product page
02	T8151B Apter Power product page
03	T9852 Apter Power product page
04	T9100 Apter Power product page
05	T9193 Apter Power product page
06	MAI32MAD Apter Power product page
07	T8850C Apter Power product page
08	T8850 Apter Power product page

Navigation links only - not manufacturer evidence for technical parameters.

SOURCE RECORD

Trusted TMR 24/48 Vdc Digital Output Module 40 Channel | ICSTT-RM451D-EN-P, March 2021

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