

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ICS Triplex T8451C

Trusted digital output module



CHANNELS	FIELD SUPPLY	GROUPS	EVENTS
40 TMR outputs	18-32 V DC	5 x 8 channels	1 ms resolution

ICS Triplex T8451C is a conformal-coated Trusted digital output module for 40 field devices. Triple modular redundancy operates within each output channel, with diagnostic measurements of current and voltage and checks for outputs remaining incorrectly on or off.

01

PRODUCT IDENTITY AND SPECIFICATIONS

Product model	T8451C
Backplane supply	20 to 32 V DC; 27 W
Field supply	18 to 32 V DC
Output channels	40 TMR digital outputs
Power groups	5 isolated groups, each with 8 channels
Continuous output current	2 A per channel; group and ambient limits also apply
Group current limit	8 A at up to 50 degrees C; 6 A at up to 60 degrees C
Minimum on-state load	50 mA

02 TECHNICAL DATA

On-state resistance	1.6 ohm
Maximum load capacitance	3000 microfarad
Short-circuit protection	Electronic latching
Sequence of events	1 ms resolution; +/-10 ms timestamp accuracy
Permitted module location	T8100 or T8300 I/O slot
Operating temperature	0 to +60 degrees C
Storage and humidity	-25 to +70 degrees C; 10-95% RH, noncondensing

03 APPLICATION AND CONFIGURATION

- It drives 40 digital field outputs with triplicated diagnostics. Field power is arranged in five groups of eight channels; it is not an analog output module.
- Match the exact order suffix, supplied hardware series, firmware and approved field-circuit configuration; the family manual does not establish unrestricted interchangeability.
- Ratings describe the documented equipment, not packed dimensions, shipping weight or a certified supplied-unit origin.

04 OFFICIAL DOCUMENTATION

ICSTT-RM2800-EN-P | PD-T8451 Issue 15

PDF p. 7: overview; pp. 17-19: installation; pp. 37-38: specifications.

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM