TRUSTED TMR

Product Data Sheet

T8310

TMR expander processor module

ARCHITECTURE	BACKPLANE SUPPLY	MODULE POSITION	ISOLATION
HIFT TMR, 3-2-0 operation	**20 to 32 V DC**	**T8300 slots PL1 or PL2**	**50 V basic insulation**

ICS Triplex T8310 is a Trusted TMR expander processor module installed in a T8300 expander chassis. Its triplicated architecture provides the communication path between the expander chassis and the processor chassis while maintaining the documented fault-containment arrangement.

01 TECHNICAL DATA

Architecture	HIFT TMR, 3-2-0 operation
Backplane Supply	20 to 32 V DC
Module Position	T8300 slots PL1 or PL2
Isolation	50 V basic insulation
Copper Distance	30 m with TC-301
Fibre Distance	10 km with T8314
Operating Temperature	0 to +60 deg C
Storage Temperature	-25 to +70 deg C
Humidity	10 to 95% non-condensing
IMB Connector	SK1, 185-way DIN 41642

02 ADDITIONAL PRODUCT DATA

Bus Connector	PL4, 96-way DIN 41612 C
Bus Data Rate	1.5 Gbit/s
Keying Pins Removed	1, 2 and 5
Legacy hardware dissipation	45 W, PD-T8310 Issue 15 hardware
Inter-module bus rate	Up to 12.5 Mbit/s

03 PRODUCT FUNCTION

The module occupies processor slot PL1 or PL2 rather than an ordinary I/O position. PD-T8310 specifies a 20-32 V DC backplane supply, copper extension up to 30 m using TC-301 and fibre extension up to 10 km using T8314 equipment; the installed hardware series determines its applicable power rating.

04 SYSTEM COMPATIBILITY

Confirm the 20-32 V DC backplane supply and the installed module series. Issue 15 lists 45 W for its documented hardware; later manufacturer certification distinguishes 45 W Series A/B and 20 W Series C, so the unit label must govern the actual power budget.

05 REFERENCE

Rockwell Automation PD-T8310 Issue 15, Trusted TMR Expander Processor; hardware-series power ratings require nameplate check

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