TRUSTED TMR EXPANDER INTERFACE

Product Data Sheet

T8311

Triple Modular Expander Interface

SUPPLY VOLTAGE RANGE	MAXIMUM POWER CONSUMPTION	PROCESSOR CLOCK	EXPANDER BUS TRANSMISSION RATE
20 to 32 V DC	**40 W**	**50 MHz**	**250 Mbit/s**

ICS Triplex T8311 is the Trusted triple modular redundant expander interface. It links a compatible Trusted controller chassis to configured expansion chassis in the documented safety-control arrangement.

01 VERIFIED TECHNICAL DATA

Supply voltage range	20 to 32 V DC
Maximum power consumption	40 W
Processor clock	50 MHz
Expander bus transmission rate	250 Mbit/s
Copper expander distance	30 m maximum
Fibre expander distance	10 km maximum
Operating ambient temperature	-5 to 60 deg C
Storage ambient temperature	-25 to 70 deg C
Relative humidity	5 to 95%, non-condensing
Internal voting architecture	3 lockstep channels

Values follow the unit photographs and applicable documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Health indication	3 channel-health LEDs
Fault containment regions	3 critical regions plus 1 monitoring region
Redundant backplane supply	2 feeds, 24 V DC nominal
Safety integrity certification	IEC 61508 SIL 3
Active/standby indicators	2 dedicated LEDs

03 DOCUMENTED USE SETTINGS

Oil and Natural Gas Production: Oil Exploration and Production.

Chemical Manufacturing and Continuous Process Production: Industrial Chemical Process Control.

Electric Power and Industrial Energy Production: Electric Power Generation Control.

04 SYSTEM COMPATIBILITY

Match T8311 to the installed Trusted TMR Expander Interface hardware and project. Confirm the connector layout, supplied revision and required companion parts before selecting this triple modular expander interface.

05 PRODUCT EVIDENCE

ICS Triplex PD-T8311 Issue 12, March 2007

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**