

Trusted TMR Expander Processor

Product Overview

The Trusted® TMR Expander Processor Module resides in the processor slots of the Trusted Expander Chassis and provides the 'slave' interface between the Expander Bus and the Expander Chassis Backplane. The Expander Bus allows multiple chassis systems to be implemented using Unshielded Twisted Pair (UTP) cable connections whilst maintaining the fault tolerant, high bandwidth Inter-Module Bus (IMB) capabilities.

The Module provides fault containment for the Expander Bus, the Module itself and the Expander Chassis, ensuring that the effects of these potential faults are localised and system availability maximised. The Module is fault tolerant with HIFT TMR architecture. Comprehensive diagnostics, monitoring and testing provide rapid fault identification. Hot-standby and module spare configurations are supported, allowing automatic and manual repair strategies

Features:

- Triple Modular Redundant (TMR), fault tolerant (3-2-0) operation.
- Hardware Implemented Fault Tolerant (HIFT) architecture.
- Dedicated hardware and software test regimes which provide very fast fault recognition and response times.
- Automatic fault handling without nuisance alarming.
- Hot replacement.
- Front Panel indicators that show module health and status.

6. Specifications

Backplane (IMB) Supply	20 Vdc to 32 Vdc
Field Supply	N/A
Power Dissipation	45 W Backplane Supply
Module Location	T8300 Expander Processor Slot
Isolation	50 V Basic Insulation, Module to Backplane Supply
Fusing	Not User Serviceable
Expander Comms Max Distance	
Using TC-301 copper cable	30 m
Using T8314 Fibre TX/RX Units	10 km
Operating Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Storage Temperature	-25 °C to +70 °C (-13 °F to +158 °F)
Relative Humidity - Operating and Storage	10 % – 95 %, non-condensing
Environmental Specifications	Refer to document 552517
Dimensions	
Height	266 mm (10.5 in)
Width	31 mm (1.2 in)
Depth	303 mm (12.0 in)
Weight	1.33 kg (2.9 lb)