

# ICS Triplex T8292

Model: T8292

Description: Trusted Power Distribution Unit MCB 24Vdc

Supply Ratings: 18 - 28 Vdc

Input/Output Ratings: 60A Max

Certification: OrdLoc

Manufacture ICS Triplex

Model T8292

Ordering information T8292

Catalog Trusted TMR System

Description ICS Triplex T8292 Trusted Power Distribution Unit MCB 24Vdc

Origin United States (US)



## Product Overview

This document provides general information for the Trusted<sup>®</sup> Processor Interface Adapter T812X. The Adapter provides easy access to the communications ports of the Trusted Triple Modular Redundant (TMR) Processor (T8110B & T8111) in the Controller Chassis for the Distributed Control System (DCS) and other links. The unit is also used to enable a number of extended facilities available on the Trusted TMR Processor including facilities for the reception of IRIG-B time synchronisation signals, enabling the use of Dual ( 'enhanced' ) Peer to Peer and enabling the Trusted System to become MODBUS Master.

## Features:

Allows easy access for external systems to communicate with a Trusted TMR Processor. Easy installation (connects directly to the rear of the Controller Chassis). Two RS422/485 configurable 2 or 4 wire connections. One RS422/485 2 wire connection. Fault/fail connections for Active and Standby Processors. Processor diagnostics connection. PSU shutdown monitor connections. Option for connecting IRIG-B122 and IRIG-B002 time synchronisation signals. Option to enable MODBUS Master on the Trusted Communications Interface.

The Trusted Processor Interface Adapter T812x is designed to be connected directly to the rear of a Trusted TMR Processor position in a Trusted Controller Chassis T8100. The Adapter provides a communications connection interface between the Trusted TMR Processor and remote systems. The Adapter also provides the option of connecting IRIG-B time synchronisation signals to the Processor. Connection between the Adapter and the Trusted TMR Processor is via two 48-way

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DIN41612 E-type connectors (SK1), one each for connection to the Active and Standby Processors.

The Adapter comprises a PCB on which the communications ports, IRIG-B connectors and both SK1 sockets (connectors to the Active/Standby Trusted TMR Processors) are mounted. The Adapter is contained within a metal enclosure and is designed to be clipped onto the appropriate connector at the rear of the Controller Chassis. Release buttons are provided to enable the Adapter to be disconnected. The communication ports available at the Adapter are RS422/RS485 2 wire on Port 1, and RS422/RS485 2 or 4 wire on Ports 2 and 3. An earth point is provided on the PCB so that the Chassis earth of the Processor will be connected to the shell of the Adapter and module rack earth. It is an important safety and Electrostatic Discharge (ESD) requirement that the equipotential bonding is connected and maintained.



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