

Triconex - DCS System**3008****Tricon Main Processor Module****Technical specifications**

System compatibility	Tricon v9.6 through v10.x
Main processor	Motorola MPC860, 32-bit, 50 MHz
Communication processor	Motorola MPC860, 32-bit, 50 MHz
DRAM	16 MB without battery backup
SRAM	32 KB with battery backup
Flash PROM	6 MB
TriBus	25 Mbps, 32-bit CRC-protected, 32-bit DMA, fully isolated
Diagnostic serial interface	Optically isolated RS-232 on 25-pin connector
Serial isolation	500 VDC
Communication bus	RS-485, 2 Mbps
I/O bus	RS-485, 375 kbps
Logic power	10 W
Clock drift	±2 seconds/day typical; ±2.16 seconds/day maximum

Description

Triconex 3008 is a main processor module for Tricon v9.6 through v10.x systems, using a Motorola MPC860 32-bit 50 MHz processor.

A Tricon controller uses three main processors that execute the safety application independently and exchange data through the isolated, CRC-protected TriBus architecture.

Applications

- Emergency shutdown systems
- Fire and gas protection systems
- Process safety management and critical control

Technical note

Triconex 3008 replacement requires a healthy redundant controller, exact version and revision compatibility, a current application backup and diagnostic verification before and after insertion.

Evidence boundary

The Tricon planning guide explicitly identifies Model 3008 and its processor, memory, bus, diagnostic and logic-power specifications.