

3008

Main Processor Module

CONTROLLED ENGINEERING COPY

Maintain three matched 3008 processors in the main chassis, preserve the approved TriStation application and SOE blocks, and verify TriBus, I/O-bus, memory, and channel diagnostics after service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3008
Manufacturer part	3008
Hardware type	Motorola MPC860; 32 bit; 50 MHz
System family	Tricon v9.6 and later controller



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01 PRE-INSTALLATION PLAN

- 1

Verify 3008 and the Tricon v9.6-or-later controller revision before replacement.
- 2

Place the safety application and controlled process in the approved maintenance state.
- 3

Record processor position, active state, maintenance indicators, and application revision.
- 4

Use ESD controls and inspect the keyed main-chassis connector before insertion.
- 5

Do not mix processor types or transfer memory specifications from another MP generation.

MATCHED HARDWARE

- Tricon main chassis
- two additional 3008 main processors
- triplicated I/O bus
- TriStation application and SOE configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3008 / 3008 recorded
Physical interface	Tricon main chassis
Companion check	two additional 3008 main processors
Functional proof	Executes the user-written control program independently in one of three processor channels
Application test	Emergency shutdown logic execution

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Processor	Motorola MPC860; 32 bit; 50 MHz
Main memory	16 MB DRAM; non-battery-backed
Retentive memory	32 KB SRAM; battery-backed
Program storage	6 MB Flash PROM
TriBus rate	25 Mbit/s
TriBus protection	32-bit CRC
TriBus transfer	32-bit DMA; fully isolated
I/O bus processor	Motorola MPC860; 32 bit; 50 MHz
Communication bus processor	Motorola MPC860; 32 bit; 50 MHz
Processors per main chassis	3
Supported system	Tricon v9.6 and later
Indicators	PASS; FAULT; ACTIVE; MAINT1; MAINT2; COM TX/RX; I/O TX/RX

FIELD NOTE

Maintain three matched 3008 processors in the main chassis, preserve the approved TriStation application and SOE blocks, and verify TriBus, I/O-bus, memory, and channel diagnostics after service.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3008 / 3008 recorded
Physical interface	Tricon main chassis
Companion check	two additional 3008 main processors
Functional proof	Executes the user-written control program independently in one of three processor channels
Application test	Emergency shutdown logic execution

04 RETURN-TO-SERVICE RECORD

- ☐ Confirm all three 3008 modules synchronize and report consistent TriBus communication.
- ☐ Review fixed-memory, SRAM, I/O-processor, clock, and communication diagnostics.
- ☐ Validate control execution and sequence-of-events time stamps before full service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3504E	High-Density Digital Input Module	Open product page
Triconex 4210	Remote Extender Module Set	Open product page
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page

SOURCE IDENTIFIERS

Tricon Systems Technical Product Guide
9791007-013

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