

EMP11 3006

Enhanced Main Processor II Module

Triconex EMP11 3006 is an Enhanced Main Processor II module for Tricon version 9 systems. It operates as one of three processors executing and coordinating the safety-control application.

PRODUCT SNAPSHOT

BRAND

Triconex

FAMILY

Tricon version 9 controller

PART

3006

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PRODUCT OVERVIEW

Triconex EMP001 3006 is an Enhanced Main Processor II module for Tricon version 9 systems. It operates as one of three processors executing and coordinating the safety-control application.

1

Executes one channel of the triplicated Tricon version 9 control program

2

Participates in input-table voting and output-data coordination across the controller

3

Communicates with the assigned I/O subsystem and controller communication buses

4

Reports processor and system health through Tricon diagnostics

SYSTEM COMPONENTS

Tricon version 9 main chassis

two matching 3006 processor modules

approved Tricon application

triplicated I/O and communication buses

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Triconex 3504E	High-Density Digital Input Module	Open product page
Triconex 3008	Main Processor Module	Open product page
Triconex 4210	Remote Extender Module Set	Open product page
Triconex 4119A	Enhanced Intelligent Communication Module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Product number	3006
Processor generation	Enhanced Main Processor II
Tricon version	9

PARAMETER	VALUE
Memory	2 MB
Controller architecture	Three main processors per Tricon system

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Tricon version 9 main chassis
Companion hardware	two matching 3006 processor modules
Field connection	approved Tricon application
Primary system function	Executes one channel of the triplicated Tricon version 9 control program
Controlled acceptance duty	Legacy Tricon version 9 safety control

TECHNICAL NOTE

Confirm the complete EMP11 3006 identity, matching processor set, installed Tricon version, and approved application backup before exchanging a module; validate synchronization and diagnostics afterward.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Legacy Tricon version 9 safety control

Executes one channel of the triplicated Tricon version 9 control program

Triplicated main-processor replacement

Participates in input-table voting and output-data coordination across the controller

Emergency shutdown application retention

Communicates with the assigned I/O subsystem and controller communication buses

Installed-base controller lifecycle maintenance

Reports processor and system health through Tricon diagnostics

PRODUCT PRECAUTIONS

- 1 Verify EMP001 3006 and the installed Tricon version 9 chassis before work.
- 2 Place the safety controller and process in the approved maintenance state.
- 3 Record the three processor identities, positions, revisions, and active diagnostics.
- 4 Back up the approved control application and configuration before module removal.
- 5 Use ESD controls and inspect the keyed main-chassis connector.
- 6 Do not transfer 3008 or other-generation processor specifications to EMP001 3006.
- 7 Confirm all three processors synchronize and communicate with the I/O subsystem.
- 8 Validate control execution, fault reporting, and the intended safety response before service.

ENGINEER FAQ

Q1 Which installation error is most important to prevent on EMPII 3006?

Do not interchange EMPII 3006 with an adjacent execution or alter its matched Tricon version 9 main chassis; the exact electrical, channel, and connector arrangement must be retained.

Q3 Which diagnostics should be reviewed after installing EMPII 3006?

Review the applicable point, module, power, communication, or load indicators for EMPII 3006, then confirm the intended role: executes one channel of the triplicated tricon version 9 control program.

Q5 What evidence should be retained after legacy application backup and synchronization testing on EMPII 3006?

Retain the full EMPII 3006 identity, as-left connections or settings, final diagnostics, measured functional-test result, and authorization to return the affected process function to service.

Q7 How should an engineer verify Tricon version 9 compatibility for EMPII 3006?

Use the approved connection drawing and the model-specific values in Triconex Lifecycle Phase Report; preserve the as-found terminal, connector, polarity, shield, and channel identity.

Q2 How is 2 MB generation identity handled during a EMPII 3006 replacement?

Record the installed state first, isolate the associated process function, reproduce only the approved model-specific arrangement, and verify it before energization.

Q4 Can EMPII 3006 be substituted for a similar Triconex model without a configuration review?

No. Confirm the exact model, companion hardware, signal execution, system version, and approved configuration before any substitution.

Q6 Which installed hardware must be matched before fitting EMPII 3006?

Match EMPII 3006 to Tricon version 9 main chassis and two matching 3006 processor modules, then confirm the complete physical marking and assigned Tricon version 9 controller position.

Q8 What check is required for three matched main processors when commissioning EMPII 3006?

Apply a controlled signal or command within the documented range and compare the field result, controller indication, and product diagnostics before normal operation.

SOURCE Triconex Lifecycle Phase Report | Standard Tricon Product Lifecycle and Compatibility Report

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