Yokogawa F3RP45-2P/L1

Installation & Commissioning Guide

Yokogawa F3RP45-2P/L1 is a legacy FA-M3 VxWorks CPU execution built on the documented F3RP45-2P base module.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Runs a retained VxWorks real-time control application.

Feature 2

Uses the documented F3RP45-2P base hardware.

Feature 3

Occupies an FA-M3/e-RT3 CPU position.

Feature 4

Requires application and hardware records to be preserved because the base model is discontinued.

VERIFIED DATA SNAPSHOT

CPU family	FA-M3 VxWorks CPU
Base module	F3RP45-2P
System platform	FA-M3 / e-RT3
Lifecycle status	Sales and support ended
Module handling	System power off for installation or removal
ESD control	Static discharge required before handling
Installation environment	Pollution degree 2

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Scan the approved WhatsApp code for model-specific support.

Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

CPU family

FA-M3 VxWorks CPU

Base module

F3RP45-2P

System platform

FA-M3 / e-RT3

Lifecycle status

Sales and support ended

Module handling

System power off for installation or removal

ESD control

Static discharge required before handling

Installation environment

Pollution degree 2

IMPORTANT NOTICE	Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

CONFIGURATION AND WORK CONTROLS

Configuration identity	Yokogawa F3RP45-2P/L1
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

Installation sequence

CONTROLLED WORK STEPS

01	Record the full F3RP45-2P/L1 label and installed slot.
02	Back up the VxWorks application and all boot media.
03	Capture connected I/O, serial interfaces and network settings.
04	Turn off FA-M3 system power before removal or insertion.
05	Discharge static electricity before touching the module.
06	Preserve protective earth and noise-separation wiring.
07	Restore the exact boot and application configuration.
08	Verify startup, I/O exchange and machine interlocks before release.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

Legacy machine control

Maintains an installed FA-M3 VxWorks application.

Special-purpose sequencing

Executes the retained real-time program and I/O exchange.

CPU spare strategy

Keeps a verified replacement for an obsolete controller position.

Migration planning

Provides the baseline hardware and application record for a controlled upgrade.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Which base hardware underlies Yokogawa F3RP45-2P/L1?	The official lifecycle record identifies F3RP45-2P as the base VxWorks CPU module.
What operating-system family is associated with Yokogawa F3RP45-2P/L1?	The F3RP45-2P base belongs to Yokogawa's VxWorks-compatible CPU family.
Where is Yokogawa F3RP45-2P/L1 installed?	It occupies a CPU position in an FA-M3 or e-RT3 modular control station.
Why must the application image be retained before changing Yokogawa F3RP45-2P/L1?	The real-time program, boot configuration and I/O relationships are part of the working controller execution.

Release record and technical references

CLOSEOUT QUESTIONS

What lifecycle constraint applies to Yokogawa F3RP45-2P/L1?	Yokogawa lists the F3RP45-2P base model as discontinued with support ended.
When may Yokogawa F3RP45-2P/L1 be removed from its base?	Removal or insertion should occur only after FA-M3 system power is switched off under the approved procedure.
Which handling control protects Yokogawa F3RP45-2P/L1 electronics?	Discharge static electricity and use the site's approved ESD controls before touching the module.
What test closes a Yokogawa F3RP45-2P/L1 replacement?	Confirm normal boot, application execution, I/O exchange, communication and every affected machine interlock.

RELATED MODELS FOR INSTALLATION PLANNING

Yokogawa PW404 S1	Installation-planning reference. Review the complete ordering string before selection.
Yokogawa A2EE1A-T	Installation-planning reference. Compare the required interface and system position.
Yokogawa VF702	Installation-planning reference. Confirm the execution independently for the intended task.

CONFIGURATION AND FINAL CONTROL

Configuration identity	Yokogawa F3RP45-2P/L1
Technical boundary	Apply only the functions and interfaces shown for this product or its identified system family.
Selection control	Match the complete ordering string and installed interfaces before purchase or installation.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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