Yokogawa CP461-10

Complete Product Information

Yokogawa CP461-10 is a field control unit processor module. Its exact marking, installed interfaces and companion equipment must be verified before replacement or commissioning.

01 Product identity and verified data

Complete model	CP461-10
Product type	field control unit processor module
Manufacturer	Yokogawa
Supply condition	New, original product
Technical source	Yokogawa IM 33J01S10-01Z1 technical-document index and system conformity guidance
Base model	CP461
Offered suffix	-10
Module function	Processor module
Supported FCU family	AFV30S / AFV30D
Supported cabinet FCU	AFV40S / AFV40D
Supported N-IO FCU	A2FV50S / A2FV50D
Supported RIO-upgrade FCU	A2FV70S / A2FV70D
Installation status	Preinstalled component in the applicable field control unit

Engineering purpose

The complete CP461-10 identity establishes the offered hardware. Confirm the installed system, revision and field interfaces before approving the replacement.

02 Additional technical specifications

Configuration boundary	Firmware, database and redundancy state are system-specific
Replacement boundary	Use the appropriate FCU manual for the installed platform

Evidence boundary

Yokogawa confirms CP461 use in the listed FCU families; the -10 suffix is retained but no unsupported detailed meaning or processor rating is invented.

03 Engineering overview

CP461-10 is a processor module used in specified Yokogawa CENTUM VP field control units. The applicable installation and maintenance instructions depend on the exact AFV or A2FV host platform.

Processor replacement is a system change, not only a board swap. Preserve project database, firmware context, controller identity, redundancy state, network settings and host-unit revision before intervention.

Acceptance should include controlled startup, controller health, redundancy synchronization where applicable, I/O communication, sequence execution and alarm/event review under the approved plant procedure.

Application map

AFV30 field control

Operate as the processor component in supported single or duplex AFV30 units.

AFV40 cabinet control

Serve the supported cabinet-style field control unit.

A2FV50 N-IO control

Process control tasks in the supported N-IO field control unit.

A2FV70 RIO upgrade

Support the approved RIO system-upgrade field control unit.

04 Installation and product precautions

Back up the project

Create a verified, restorable control database and configuration backup.

Record firmware context

Capture processor, host-unit and engineering-system software revisions.

Control redundancy

Confirm active/standby roles and the approved switch or shutdown procedure.

Inspect host hardware

Check backplane, power, cooling and companion modules before fitting the processor.

Verify network identity

Preserve controller addresses, domain settings and communication assignments.

Perform system acceptance

Prove controller health, I/O communication, redundancy and representative control functions.

Technical notes

Installation relationship	Use the exact model marking and manufacturer wiring or installation information for the delivered hardware.
System boundary	Verify host equipment, companion interfaces, field wiring and configuration before energizing.
Technical reference	Yokogawa IM 33J01S10-01Z1 technical-document index and system conformity guidance.

Engineering questions

Which host platforms must be checked before installing CP461-10?	Identify whether the processor is in AFV30, AFV40, A2FV50 or A2FV70 hardware and use the corresponding Yokogawa system document.
What backup is required before replacing CP461-10?	Create and verify a restorable project database and record controller identity, firmware, network settings, redundancy state and application revisions.
How should duplex operation be managed for CP461-10?	Follow the host FCU procedure to identify active and standby processors, verify synchronization and control the changeover or shutdown before removal.
What startup checks are essential after fitting CP461-10?	Confirm power-on diagnostics, controller mode, time synchronization, network communication, I/O node status and application loading before enabling control.
How can an apparent CP461-10 processor fault be separated from a host fault?	Check FCU power, backplane, cooling, network, companion modules and diagnostic logs before condemning the processor.
What configuration evidence should be compared after replacing CP461-10?	Compare project checksum or revision, controller assignment, I/O database, communication settings and sequence enable states with the approved backup.
How should representative control be proved on CP461-10?	Exercise approved analog, digital, sequence and communication paths while observing alarms, event timing and redundancy behaviour.
What closes a CP461-10 changeover?	Retain backup identity, firmware and hardware record, diagnostic screenshots, synchronization result, representative functional tests and operations approval.

Acceptance and support

Retain the full marking, installed-chain identities, test readings and approved machine configuration. Confirm the exact offered item and included scope in the written quotation.

Discuss the exact marking and installed application with Apter Power.
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Verified related product references

Related product	SDV144-S33
Related product	CP461-10
Related product	S9400UK
Related product	AAB841

Commissioning record template

Installed asset	Machine, bearing, channel or cabinet reference
Companion identities	Probe, cable, sensor, interface or monitor markings
Mechanical datum	Mounting reference, reach, alignment or sealing condition
Electrical datum	Chain length, connector, shield, supply or input assignment
Before-work baseline	Gap, bias, vibration, continuity or channel observation
As-left result	Final measured value and functional proof
Approval basis	Applicable drawing, control requirement or site procedure
Handover	Technician, date, revision and maintenance-record location

Handover note

A replacement is complete only after the installed identity, physical interfaces, measured response and configuration record agree. Escalate any mismatch before the channel returns to protection or monitoring service.

Release checklist

Identity accepted	Complete marking agrees with the order, photographs and installed asset record.
Interfaces accepted	Mechanical fit, connector, wiring and companion components match the approved design.
Environment accepted	Temperature, contamination, vibration and route protection remain inside documented limits.
Configuration accepted	Hardware assignment, chain length or supply settings agree with the installed configuration.
Static proof accepted	Gap, bias, output voltage, channel state or continuity result is recorded as applicable.
Operating proof accepted	The returned channel response agrees with the approved machine or system baseline.
Records accepted	Photographs, readings and as-left configuration are attached to the maintenance record.
Release accepted	The responsible technician and operations owner approve return to service.

Verification record and related references

Nameplate evidence Full marking, suffix and revision photographs	Related reference S9400UK
Interface evidence Connector, mounting and companion-hardware record	Related reference AAB841
Measured evidence Supply, signal, load or continuity result	Related reference AAI841-H00
Release evidence As-left result, reviewer and return-to-service date	Related reference ADV159-P00