Yokogawa AIP512

Complete Product Information

AIP512 forms the controlled junction between field-control processing and the Remote I/O bus, carrying station communication through the documented RIO connector unit.

WHAT THIS PRODUCT DOES

Yokogawa AIP512 is a RIO bus coupler assembly for the remote-I/O communication path of a legacy CENTUM field control unit.

Product characteristic 1

Couples the field control unit to a Remote I/O bus.

Product characteristic 2

Supports the documented legacy CENTUM remote-I/O architecture.

Product characteristic 3

Works with the assigned RIO bus connector unit and cabling.

Product characteristic 4

Keeps RIO bus hardware distinct from the V-Net coupler position.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Bus role	RIO bus coupling
Assembly type	Remote I/O bus coupler
System scope	Legacy CENTUM field control
Connection purpose	Field control unit to remote I/O
Companion hardware	RIO bus connector unit
Product role	RIO Bus Coupler Assembly

IMPORTANT NOTICE

Preserve the complete AIP512 identity and verify its documented electrical, network or signal response before release.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Bus role	RIO bus coupling
Assembly type	Remote I/O bus coupler
System scope	Legacy CENTUM field control
Connection purpose	Field control unit to remote I/O
Companion hardware	RIO bus connector unit

FEATURE INTERPRETATION

Product identity

Couples the field control unit to a Remote I/O bus.

System role

Supports the documented legacy CENTUM remote-I/O architecture.

Service context

Works with the assigned RIO bus connector unit and cabling.

Return-to-service focus

Keeps RIO bus hardware distinct from the V-Net coupler position.

SIGNAL OR CONTROL PATH

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

AIP512 should be matched to the documented system position, companion hardware and retained project configuration before the channel or station is returned to control.

PRODUCT-PAGE TECHNICAL QUESTIONS

Which control network uses Yokogawa AIP512?	AIP512 is a coupler assembly for the legacy Remote I/O bus.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Remote I/O communication

Links the control station to distributed I/O hardware.

RIO bus restoration

Replaces a failed coupler after cable and node faults are excluded.

Field control unit service

Maintains the documented RIO bus card position.

Legacy system migration survey

Captures RIO topology before a controller or I/O modernization project.

APPLICATION VERIFICATION MAP

Remote I/O communication	Confirm the documented system position and the required operating function.
RIO bus restoration	Compare the restored connection or control path with the approved record.
Field control unit service	Check the physical interface and the retained configuration before startup.
Legacy system migration survey	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

Why must Yokogawa AIP512 not be treated as an AIP502 coupler?	AIP512 serves the RIO bus, while AIP502 serves the V-Net control-network connection.
Which companion hardware should be recorded with Yokogawa AIP512?	Record the installed RIO bus connector unit, cable routes and all remote nodes on the segment.
How should the RIO topology be preserved before replacing Yokogawa AIP512?	Label both bus directions and capture the order, addresses and status of every connected remote node.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Verify AIP512 against the installed RIO bus position.
02	Record both RIO cable routes and every remote node served.
03	Identify the companion connector unit before disconnection.
04	Isolate controller and bus power under the approved procedure.
05	Inspect bus contacts and cable shields without altering topology.
06	Reinstall the coupler in its keyed position.
07	Bring remote nodes online one segment at a time.
08	Confirm RIO communication, node diagnostics and process I/O before release.

FREQUENTLY ASKED TECHNICAL QUESTIONS

Which control network uses Yokogawa AIP512?	AIP512 is a coupler assembly for the legacy Remote I/O bus.
What does Yokogawa AIP512 connect inside a CENTUM station?	It connects field-control processing to the documented remote-I/O communication path.
Why must Yokogawa AIP512 not be treated as an AIP502 coupler?	AIP512 serves the RIO bus, while AIP502 serves the V-Net control-network connection.
Which companion hardware should be recorded with Yokogawa AIP512?	Record the installed RIO bus connector unit, cable routes and all remote nodes on the segment.

IMPORTANT NOTICE	Confirm the complete AIP512 marking, assigned system position and mating interfaces before installation.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, configuration control and related models

ADDITIONAL TECHNICAL QUESTIONS

How should the RIO topology be preserved before replacing Yokogawa AIP512?	Label both bus directions and capture the order, addresses and status of every connected remote node.
What contact condition matters when inspecting Yokogawa AIP512?	Check coupler and connector-unit contacts for alignment, retention, oxidation and damage.
How should remote nodes be restored after installing Yokogawa AIP512?	Energize according to the approved sequence and verify each node returns with its recorded address and I/O status.
What proves Yokogawa AIP512 is communicating correctly?	Stable RIO diagnostics, online remote nodes and verified process I/O values demonstrate correct operation.

CONFIGURATION CONTROL RECORD

Configuration identity	Yokogawa AIP512
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.

RELATED MODELS ON APTERPOWER

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

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