Yokogawa SB401-10

ESB Bus Interface Slave Module

01 / CONFIRMED ROLE AND EXACT IDENTITY

Yokogawa SB401-10 is an ESB bus interface slave module used at a compatible FIO node to exchange node data with the upstream field control unit. The complete -10 execution must be matched to the installed node and bus arrangement.

ESB Bus Interface Slave Module → **Installed system boundary** → **Verified service evidence**

FIO node bus interface

Connect a compatible node unit to the ESB path defined by the control-system architecture.

Redundant node communication

Restore the matched A/B bus paths and partner positions used by a redundant node design.

Node expansion maintenance

Maintain the communication boundary between field I/O modules and the upstream field control unit.

Legacy suffix replacement

Replace a documented SB401-10 position while retaining its historical suffix and installed topology.

Identity boundary

SB401 is documented as the ESB bus interface slave position in compatible Yokogawa node units. For SB401-10, retain the historical suffix exactly and verify the installed bus connectors, terminator arrangement, slot assignment and redundant partner before replacement; newer -51 suffix data is not used to reinterpret -10.

Module function	ESB bus interface slave
System role	Node-side ESB communication
Typical installation	Compatible FIO node unit
Bus architecture	ESB bus

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Module function	ESB bus interface slave
System role	Node-side ESB communication
Typical installation	Compatible FIO node unit
Bus architecture	ESB bus
Redundant installation	Supported by matched node design
Node slot evidence	Record before removal
Bus connector evidence	Record both installed connections
Terminator evidence	Verify end-of-bus arrangement
Cable identity	Retain installed ESB cable tag
Upstream pairing	Verify corresponding bus coupler

Use exact evidence

Only values tied to this model or its confirmed manufacturer family are stated.

Preserve installed context

Host, slot, partner and connection evidence govern replacement acceptance.

No adjacent-model inference

Nearby suffixes and related modules do not supply missing ratings.

Keep limits distinct

A maximum or compatibility boundary is not an operating target.

Procurement gate

Status evidence	Record LEDs and diagnostics
Configuration evidence	Retain node and bus assignment
Replacement boundary	Exact -10 execution
Adjacent suffix boundary	Do not infer -10 from -51

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03 / SYSTEM INTEGRATION EVIDENCE

FIO node bus interface

Connect a compatible node unit to the ESB path defined by the control-system architecture.

Redundant node communication

Restore the matched A/B bus paths and partner positions used by a redundant node design.

Node expansion maintenance

Maintain the communication boundary between field I/O modules and the upstream field control unit.

Legacy suffix replacement

Replace a documented SB401-10 position while retaining its historical suffix and installed topology.

Before removal	Record the complete SB401-10 tag, node, slot, bus side and redundant partner before removal.
Maintenance state	Place the affected process and node in the approved maintenance state before opening the ESB path.
Connection record	Label every ESB connector and cable end so BUS1 and BUS2 cannot be exchanged.
Identity control	Do not use SB401-51 ordering data to decode or replace the -10 execution.
Acceptance	Restore the exact upstream coupler relationship and clear all node and bus diagnostics.
Retained record	Retain the final topology, LED state and witnessed communication result in the acceptance record.

Engineering boundary

Application examples describe the installed-system role only. They do not establish automatic interchangeability, redesign approval or compatibility with a different suffix.

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Question	Evidence-based answer
What bus role does Yokogawa SB401-10 perform?	It serves as the ESB bus interface slave at a compatible node unit, carrying node communication to the upstream control architecture.
Where is Yokogawa SB401-10 installed?	It is installed in the designated bus-interface position of a compatible Yokogawa FIO node unit.
Can Yokogawa SB401-10 be replaced with SB401-51?	Do not assume interchangeability. Verify the complete -10 execution, node compatibility, system release and approved replacement documentation.
What ESB connections must be recorded for Yokogawa SB401-10?	Record both bus paths, connector identities, cable tags and whether the position is at a terminated end of the ESB segment.
How is redundancy checked for Yokogawa SB401-10?	Confirm the installed partner, side assignment, cable routing and healthy communication on both approved paths.
What must be captured before removing Yokogawa SB401-10?	Capture the complete tag, node and slot, LED state, diagnostics, bus connectors, terminator evidence and upstream pairing.
What should be verified after installing Yokogawa SB401-10?	Verify seating, exact cable restoration, terminator arrangement, node recognition, bus diagnostics and communication with the field control unit.
Which identity must be retained when ordering Yokogawa SB401-10?	Retain the complete SB401-10 marking and do not translate its suffix using a later SB401 ordering table.

Decision rule

If the installed evidence disagrees with this record, stop and resolve the exact tag, host documentation and configuration before release.

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ESB Bus Interface Slave Module

Status evidence	Record LEDs and diagnostics
Configuration evidence	Retain node and bus assignment
Replacement boundary	Exact -10 execution
Adjacent suffix boundary	Do not infer -10 from -51
Commissioning proof	Node communication and diagnostics
Release record	As-left bus map and witnessed result

Technical reference record

FIO System Overview

GS 33J60A10-01EN; selected pages showing SB401 node placement and installation restrictions

Related Apter Power catalog references

Catalog navigation only. These entries do not establish compatibility, substitution or approval of a changed installation.

Yokogawa AFV10D S2 | View Yokogawa AFV10D S2 page

Yokogawa EC401-10 S2 | View Yokogawa EC401-10 S2 page

Yokogawa ADV151-P00 S2 | View Yokogawa ADV151-P00 S2 page

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Send the exact model, quantity and requested condition for a quotation.

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