Yokogawa SB401-10

ESB Bus Interface Slave Module

01 / SCOPE, BASELINE AND WORK-CONTROL GATE

This guide restores the documented SB401-10 position without changing its approved host, assignment, connections or operating purpose.

Capture exact identity → **Control installed energy and process state** → **Restore diagnostics and function**

Exact tag

Record SB401-10 and every visible revision or assembly label.

Installed context

Capture host, slot, partner and connected hardware before disturbance.

Baseline evidence

Save configuration, status indications and active diagnostics.

Release boundary

Use only permitted checks under the approved site procedure.

Work identity	SB401-10
Function	ESB Bus Interface Slave Module
Origin requested	Japan
Evidence rule	No adjacent-model parameter borrowing

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Preparation 1

Record the complete SB401-10 tag, node, slot, bus side and redundant partner before removal.

Preparation 2

Place the affected process and node in the approved maintenance state before opening the ESB path.

Preparation 3

Label every ESB connector and cable end so BUS1 and BUS2 cannot be exchanged.

Preparation 4

Confirm whether the installed position requires a bus terminator and preserve that arrangement.

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

Stop conditions

Tag differs	Resolve identity before ordering or installation.
Host is undocumented	Trace the installed architecture and approved manuals.
Connection record is incomplete	Label and photograph every affected interface.
Safe state is not established	Do not proceed with removal.

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03 / REMOVAL AND EXACT RESTORATION SEQUENCE

Step	Controlled action
1	Record the complete SB401-10 tag, node, slot, bus side and redundant partner before removal.
2	Place the affected process and node in the approved maintenance state before opening the ESB path.
3	Label every ESB connector and cable end so BUS1 and BUS2 cannot be exchanged.
4	Confirm whether the installed position requires a bus terminator and preserve that arrangement.
5	Protect exposed backplane and bus contacts from electrostatic discharge and contamination.
6	Do not use SB401-51 ordering data to decode or replace the -10 execution.
7	Restore the exact upstream coupler relationship and clear all node and bus diagnostics.
8	Retain the final topology, LED state and witnessed communication result in the acceptance record.

Mechanical fit

Seat only in the documented position and verify retention.

Electrical fit

Restore feeder, cable or backplane relationships exactly.

Information fit

Retain configuration, labels, revision and diagnostic evidence.

Environmental fit

Keep contacts clean and use grounded ESD controls.

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Commissioning question	Required evidence
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.

Acceptance record

Accept only when exact identity, installed position, connections, diagnostics and the permitted functional response match the approved record.

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05 / HANDOVER AND RETAINED EVIDENCE

Cable identity	Retain installed ESB cable tag
Upstream pairing	Verify corresponding bus coupler
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 ADV151-P00 S2 | View Yokogawa ADV151-P00 S2 page

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

Yokogawa AFV10D S2 | View Yokogawa AFV10D S2 page

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

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