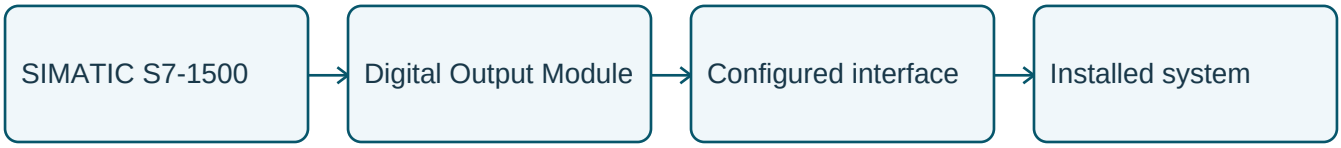
6ES7522-1BH00-0AB0

01 / System identity and preparation

Siemens 6ES7522-1BH00-0AB0 is the SIMATIC S7-1500 DQ 16x24VDC/0.5A ST digital output module. Its sixteen current-sourcing transistor outputs are arranged in two groups of eight. Each channel has a rated output current of 0.5 A, with a maximum of 4 A per group and 8 A per module subject to the applicable loading and installation conditions.



Preparation priorities

Load selection	Check the 24 V DC load, 0.5 A channel limit and group/module loading conditions.
PLC integration	Configure the exact DQ16 ST module and its output addresses in the compatible S7-1500 or ET 200MP arrangement.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

Values apply to DQ 16x24VDC/0.5A ST 6ES7522-1BH00-0AB0. Load-dependent switching limits and installation conditions remain applicable.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Load selection	Check the 24 V DC load, 0.5 A channel limit and group/module loading conditions.
PLC integration	Configure the exact DQ16 ST module and its output addresses in the compatible S7-1500 or ET 200MP arrangement.
Fault response	Set appropriate substitute values and validate diagnostic alarms and the machine response to loss of supply.
Output acceptance	Test commanded outputs, indication and connected-load behavior; do not parallel outputs for current uprating.

Load selection

Check the 24 V DC load, 0.5 A channel limit and group/module loading conditions.

PLC integration

Configure the exact DQ16 ST module and its output addresses in the compatible S7-1500 or ET 200MP arrangement.

Configured system behavior

The module supports configurable output behavior and substitute values, diagnostic alarms, supply-voltage monitoring and short-circuit detection. Electronic short-circuit protection operates in a clocked manner with a typical response threshold of 1 A. RUN, ERROR, PWR and channel-status LEDs help distinguish module operation, supply state and output commands; the module does not provide wire-break diagnostics.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

Fault response

Set appropriate substitute values and validate diagnostic alarms and the machine response to loss of supply.

Output acceptance

Test commanded outputs, indication and connected-load behavior; do not parallel outputs for current uprating.

Key hardware references

Output channels	16, arranged in two groups of 8
Output technology	Current-sourcing transistor
Rated output voltage	24 V DC
Rated channel current	0.5 A

Configuration and service context

Engineering support starts with TIA Portal V12; the specified hardware status is E01 with firmware V2.0.0. Isochronous operation and prioritized startup are supported. Outputs may be paralleled for logic links or redundant load control, but not to increase current capacity. This standard output module is not intended for safety functions, and load type, switching rate and the configured substitute state must be checked before energization.

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Protect the hardware

Use the applicable isolation and electrostatic-discharge controls. Preserve connectors, identification and mechanical retention during handling.

Verify the restored function

Apply the approved site acceptance procedure and compare actual behavior with the recorded system configuration before returning equipment to service.

Acceptance checkpoints

Before energization	Configure the exact DQ16 ST module and its output addresses in the compatible S7-1500 or ET 200MP arrangement.
Configuration review	Set appropriate substitute values and validate diagnostic alarms and the machine response to loss of supply.
Functional release	Test commanded outputs, indication and connected-load behavior; do not parallel outputs for current uprating.

What engineering version supports 6ES7522-1BH00-0AB0?

TIA Portal support begins at V12. Match the installed module hardware and firmware with the project configuration.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The manufacturer lifecycle phase is End of Product Lifecycle. Plan service and any replacement around the complete installed configuration.

Technical basis

Siemens 6ES7522-1BH00-0AB0 Product Data Sheet; Digital Output Module DQ 16x24VDC/0.5A ST Manual, A5E03485531-AD, 09/2016.

Applicability

Values apply to DQ 16x24VDC/0.5A ST 6ES7522-1BH00-0AB0. Load-dependent switching limits and installation conditions remain applicable.

Related portfolio references

Siemens 6ES7592-1BM00-0XA0

Siemens 6XV1830-0EH10 200M

Siemens 6DD1661-0AE0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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Apply manufacturer instructions and approved site procedures.