Product dashboard

Siemens 6ES7512-1SK01-0AB0 is a fail-safe CPU 1512SP F-1 PN for an ET 200SP station. It provides 300 KB program memory, 1 MB data memory and a PROFINET IRT interface with a three-port switch.

Exact model	Product type	System family	Functional role
6ES7512-1SK01-0AB0	SIMATIC CPU 1512SP F-1 PN	SIMATIC ET 200SP	Fail-Safe CPU

PARAMETER	DOCUMENTED VALUE
Exact article number	6ES7512-1SK01-0AB0
CPU designation	1512SP F-1 PN
Host platform	ET 200SP
Program work memory	300 KB
Data work memory	1 MB
Primary interface	PROFINET IRT, 3-port switch
Bit performance	48 ns
Rated supply	24 V DC

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6ES7512-1SK01-0AB0

System overview

6ES7512-1SK01-0AB0 executes standard and fail-safe control tasks in a documented ET 200SP station, with the memory card, BusAdapter, PROFINET ports and safety project retained as one validated configuration.

Installed-system renewal

Restores the documented 6ES7512-1SK01-0AB0 position while keeping the approved host and interfaces.

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of fail-safe CPU execution and PROFINET communication in an ET 200SP station.

SYSTEM POSITION	RECORD
Installed identity	6ES7512-1SK01-0AB0

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Technical data map

PARAMETER	VERIFIED VALUE
Exact article number	6ES7512-1SK01-0AB0
CPU designation	1512SP F-1 PN
Host platform	ET 200SP
Program work memory	300 KB
Data work memory	1 MB
Primary interface	PROFINET IRT, 3-port switch
Bit performance	48 ns
Rated supply	24 V DC
Permitted supply range	19.2–28.8 V DC
Rated current	0.6 A
Maximum current	0.9 A
Memory card	Required; up to 32 GB
BusAdapter	Required for ports 1 and 2
Firmware	V2.9, functional status FS05

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	fail-safe CPU execution and PROFINET communication in an ET 200SP station

Technical evidence record: 6ES7512-1SK01-0AB0 data sheet

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Applications and precautions

1. Confirm the complete 6ES7512-1SK01-0AB0 marking before work.
2. Place the affected equipment in its approved maintenance state.
3. Isolate connected energy and prove the circuit safe.
4. Photograph the slot, wiring, connectors and settings before removal.
5. Match every documented interface and companion component.
6. Restore mechanical retention, shielding and protective earth.
7. Review hardware, network and controller diagnostics after energization.
8. Functionally verify fail-safe CPU execution and PROFINET communication in an ET 200SP station before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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6ES7512-1SK01-0AB0

Buyer and engineering FAQ

What does 6ES7512-1SK01-0AB0 identify?

6ES7512-1SK01-0AB0 identifies the simatic cpu 1512sp f-1 pn used for fail-safe CPU execution and PROFINET communication in an ET 200SP station.

Which installed system must 6ES7512-1SK01-0AB0 match?

Match 6ES7512-1SK01-0AB0 to the recorded SIMATIC ET 200SP host, position and companion hardware.

Which markings must be checked on 6ES7512-1SK01-0AB0?

Verify the complete 6ES7512-1SK01-0AB0 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing 6ES7512-1SK01-0AB0?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Related Apter Power pages

- Siemens R15E02A186 — View product page
- Siemens 6ES7132 0BL01 0XB0 — View product page
- Siemens 549 214 — View product page

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