Siemens 6ES5928-3UB21

SIMATIC S5 CPU 928B

A single-width CPU 928B central processing unit for SIMATIC S5-135U and S5-155U systems, with a slot for a second interface.

Job objective

Replace, install or verify the exact module without changing unrelated wiring, configuration, dimensions, weight or other stored product data.

Safe-work boundary

Identify Match the complete model and every suffix or secondary code.	**Isolate** Apply the plant-approved electrical and process isolation procedure.
Preserve Back up configuration and photograph all connections.	**Control** Use ESD protection and revision-controlled documentation.

Required evidence before work

Nameplate photo; slot/rack record; connector map; project backup where applicable; fault history; approved acceptance procedure.

Verification focus

- Siemens
- 6ES5928-3UB21
- CPU 928B central processor
- Slot for second interface

Readiness checklist

Exact identity	Siemens 6ES5928-3UB21 matches the work order and physical unit
System position	Rack, slot and functional assignment are recorded
Configuration	Parameters, firmware or project data are backed up when applicable
Connections	Every cable, terminal, jumper and shield is labeled
Condition	Connector, board and packaging condition are inspected
Test plan	Expected states and acceptance evidence are agreed

Interface preparation

Backplane	S5-135U or S5-155U central rack
Second interface	Use the installed interface option and project record
Program memory	Preserve and verify the approved user program
Process I/O	Validate configured address ranges after startup
Diagnostics	Capture CPU status and fault indications before removal
Programming access	Use the documented SIMATIC S5 engineering workflow

Interface acceptance record

- Backplane: S5-135U or S5-155U central rack
- Second interface: Use the installed interface option and project record
- Program memory: Preserve and verify the approved user program
- Process I/O: Validate configured address ranges after startup

03 / INSTALLATION SEQUENCE

Controlled replacement workflow

1	Confirm isolation and absence of hazardous energy
2	Compare old and replacement identities and revisions
3	Photograph and label all connections
4	Remove the existing module using ESD-safe handling
5	Inspect slot, connector, grounding and cooling path
6	Install the exact replacement without forcing connectors
7	Restore cables, jumpers and settings from the controlled record
8	Perform a final visual and continuity check before energization

STOP POINT

Do not energize if the model, slot, connector orientation, grounding, jumper state or documented system assignment is unresolved.

Configuration control

- Interface provision: Second-interface slot
- Lifecycle: Discontinued
- Listed successor: None
- Country of origin: Germany

Staged return to service

Stage	Action	Acceptance
Stage 1	Visual inspection and isolation release	Expected controlled result
Stage 2	Apply control power under observation	Expected controlled result
Stage 3	Confirm module recognition or status	Expected controlled result
Stage 4	Verify communication and affected signal paths	Expected controlled result
Stage 5	Exercise the documented function	Expected controlled result
Stage 6	Archive measured results and as-left configuration	Expected controlled result

Product-specific acceptance focus

1

Do not treat CPU 928A or another CPU 928B order number as automatically equivalent.

2

Check rack power and backplane condition before fitting the spare.

3

Validate CPU state, I/O addressing and communications during staged startup.

4

Archive the restored program, diagnostics and as-left hardware record.

Release evidence

- Do not treat CPU 928A or another CPU 928B order number as automatically equivalent.
- Check rack power and backplane condition before fitting the spare.
- Validate CPU state, I/O addressing and communications during staged startup.
- Archive the restored program, diagnostics and as-left hardware record.

Fault isolation and final record

1	Unexpected state: stop and capture evidence
2	Recheck identity, power, slot and connectors
3	Compare configuration and revision records
4	Test surrounding system before condemning the module
5	Restore a safe state and document the outcome

Apter Power handover record

Model identity	Keep the complete Siemens model code and every suffix in purchasing, installation and acceptance records.
Verification boundary	Confirm the physical nameplate, installed position and revision-controlled project documents before field work.
Apter Power support	Use the contact details and Apter Power website links in this document for product and sourcing support.

Related Apter Power products	Exact product page
Siemens 6ES5734-1BD20	View Siemens 6ES5734-1BD20
Siemens 6DD1611-0AD0	View Siemens 6DD1611-0AD0
Siemens 6DS1211-8AA	View Siemens 6DS1211-8AA
Siemens 6DS1220-8AA	View Siemens 6DS1220-8AA

Commissioning support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com

Source and identity trace

- Exact identity: Siemens 6ES5928-3UB21
- Siemens Industry Mall product record 6ES5928-3UB21
- Siemens Industry Mall historical CPU 928A record noting CPU 928B successor and partial compatibility