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.

01	02	03	04
CPU 928B central processor	S5-135U and S5-155U	Single-width version	Slot for second interface

System position

SIMATIC S5 process I/O	S5 rack and backplane	CPU 928B program execution	Control outputs and communications

Evidence boundary

Only verified exact-model facts and explicitly identified family context are included. Similar codes are not treated as substitutes.

Verification focus

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

02 / CAPABILITY MAP

Engineering domains and architecture

Manufacturer	Siemens
Article number	6ES5928-3UB21
Product line	SIMATIC S5
Processor	CPU 928B

Host systems	S5-135U / S5-155U
Mechanical version	Single-width
Interface provision	Second-interface slot
Lifecycle	Discontinued
Listed successor	None
Country of origin	Germany

Interface architecture

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

Use cases with controlled scope

S5-135U control	S5-155U control	Legacy spare strategy	Controlled restart
Central processing in an installed SIMATIC S5-135U system.	CPU replacement or maintenance in a documented S5-155U rack.	Exact-order-code stocking for end-of-life S5 installations.	Program restoration, I/O validation and sequence acceptance after exchange.

INTEGRATION CHECKPOINTS

Identity	Host system	Configuration	Acceptance
Siemens 6ES5928-3UB21 is preserved in full.	Rack, slot and surrounding hardware are verified.	Project, firmware and settings are recorded.	Functional evidence is captured before release.

System relationship

SIMATIC S5 process I/O	S5 rack and backplane	CPU 928B program execution	Control outputs and communications

Configuration control

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

Decision matrix

Question	Answer
Which systems use Siemens 6ES5928-3UB21?	It is specified for SIMATIC S5-135U and S5-155U systems.
What processor is 6ES5928-3UB21?	It is the CPU 928B central processing unit.
What is distinctive about this version?	Siemens describes it as the new-version single-width CPU with a slot for a second interface.
Is there an official direct replacement?	The Industry Mall record states that the product was deleted without replacement.
Can a CPU 928A be substituted directly?	No. Siemens notes only partial compatibility in the historical successor path, so the complete hardware and project must be reviewed.
What must be backed up before CPU exchange?	Preserve the user program, operating data, interface configuration and current diagnostics.
How is the replacement accepted?	Verify CPU startup, configured I/O, communications and the machine sequence against the approved test plan.

Eight release precautions

1 Back up the approved S5 program and operating data before removal.	**2** Confirm the rack, slot and complete 6ES5928-3UB21 identity.	**3** Record the installed second-interface option and all connected cables.	**4** Use ESD-safe handling for the CPU and memory components.
5 Do not treat CPU 928A or another CPU 928B order number as automatically equivalent.	**6** Check rack power and backplane condition before fitting the spare.	**7** Validate CPU state, I/O addressing and communications during staged startup.	**8** Archive the restored program, diagnostics and as-left hardware record.

Product verification and support

Apter Power verification 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

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Scan for the Apter Power contact page.

Model record Siemens 6ES5928-3UB21 SIMATIC S5 CPU 928B Verify the complete nameplate before installation.

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