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.

IDENTITY SNAPSHOT

H1 CPU 928B central processor	**H2** S5-135U and S5-155U
H3 Single-width version	**H4** Slot for second interface

System position

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

Document boundary

This dossier uses exact-model evidence and clearly identified family context. Unsupported values are intentionally left for nameplate, project-record or revision-manual verification.

Verification focus

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

Architecture and interface control

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

SYSTEM FLOW	
1	SIMATIC S5 process I/O
2	S5 rack and backplane
3	CPU 928B program execution
4	Control outputs and communications

Interface map

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

Engineering rule

Use the full Siemens 6ES5928-3UB21 identity in drawings, spares records and acceptance evidence. A similar family code is not proof of interchangeability.

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 / TECHNICAL DATA

Verified engineering data

Values below are limited to the reviewed exact-model or directly applicable manufacturer-family evidence.

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

CHANGE CONTROL

Record

Capture the complete nameplate, revision and installed position.

Compare

Check replacement hardware against project and service records.

Protect

Apply the documented power-isolation and ESD procedure.

Prove

Complete a model-specific functional test before release.

Configuration control

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

Service logic

Use evidence in sequence; do not skip directly from a fault symptom to part substitution.

1	Capture symptoms and existing status
2	Verify power, wiring, slot and surrounding system
3	Test 6ES5928-3UB21 against the exact service procedure
4	Replace only after the module is isolated as the cause
5	Commission and archive results

Model-specific 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.

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.

Decisions and Apter Power support

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.

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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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