

Siemens 6ES5948-3UA11

Technical Reference

Siemens 6ES5948-3UA11 is a SIMATIC S5 CPU 948 central processing unit for the S5-155U PLC with 640 Kbyte memory capacity. It executes STEP 5 control tasks and coordinates rack-based I/O and communication functions.

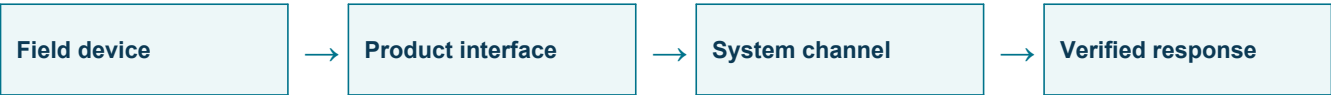
PRODUCT ROLE AND VERIFIED FEATURES

Feature 1 Provides the CPU 948 processing function for an S5-155U PLC.	Feature 2 Uses the documented 640 Kbyte memory execution.
Feature 3 Runs SIMATIC STEP 5 control programs.	Feature 4 Connects with the S5-155U rack, memory and interface resources.

VERIFIED DATA SNAPSHOT

Product family	SIMATIC S5
Processor type	CPU 948
Controller system	S5-155U
Memory capacity	640 Kbyte

SYSTEM RELATIONSHIP



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Scan the approved WhatsApp code for model-specific support.



Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

Product family	SIMATIC S5
Processor type	CPU 948
Controller system	S5-155U
Memory capacity	640 Kbyte
Programming environment	STEP 5
Module role	Central processing unit
Lifecycle	Discontinued product

SELECTION ANCHORS

- Provides the CPU 948 processing function for an S5-155U PLC.
- Uses the documented 640 Kbyte memory execution.
- Runs SIMATIC STEP 5 control programs.
- Connects with the S5-155U rack, memory and interface resources.

IMPORTANT NOTICE

Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER SOURCE CONTROLS

Manufacturer source	Siemens Industry Mall product record for 6ES5948-3UA11
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

ADDITIONAL ENGINEERING CHECKS

Which installation records should accompany Siemens 6ES5948-3UA11?	Record the complete article number, cpu module position, connections, controlled settings and functional test result.
When can Siemens 6ES5948-3UA11 return to service?	Return it to service only after diagnostics, communication, interlocks and the intended system response meet the approved acceptance criteria.

System role and architecture



APPLICATION POINTS

Machine control Execute the installed STEP 5 machine sequence.	Process automation Coordinate logic, interlocks and rack I/O in an S5-155U system.
Legacy-system maintenance Restore the documented CPU 948 execution without changing system architecture.	Controlled restart Return the controller to its recorded operating state after verified replacement.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

The cpu module serves a defined role in its documented SIMATIC system. Match the rack, interfaces, configuration and program safeguards before the controlled system returns to service.

ENGINEERING REVIEW QUESTIONS

Which processor type is Siemens 6ES5948-3UA11?	It is a SIMATIC S5 CPU 948 central processing unit.
Which PLC system uses Siemens 6ES5948-3UA11?	It is assigned to the S5-155U programmable controller.
What memory capacity is documented for Siemens 6ES5948-3UA11?	The article is identified with 640 Kbyte memory capacity.
Which programming environment applies to Siemens 6ES5948-3UA11?	The application is managed in SIMATIC STEP 5.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

- 01 Confirm the complete 6ES5948-3UA11 marking and CPU 948 designation.
- 02 Verify that the rack is an S5-155U controller.
- 03 Back up the STEP 5 program and system parameters.
- 04 Record the slot, switch positions, memory and interface connections.
- 05 Apply power isolation and electrostatic-discharge controls.
- 06 Transfer memory only under the approved CPU-state procedure.
- 07 Check status LEDs, operating mode and I/O communication after startup.
- 08 Validate interlocks and the machine sequence before enabling outputs.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE

Use the complete article number and verify the intended SIMATIC system before installation.

APPLICATION BOUNDARIES

Machine control	Execute the installed STEP 5 machine sequence.
Process automation	Coordinate logic, interlocks and rack I/O in an S5-155U system.
Legacy-system maintenance	Restore the documented CPU 948 execution without changing system architecture.
Controlled restart	Return the controller to its recorded operating state after verified replacement.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

Which processor type is Siemens 6ES5948-3UA11?	It is a SIMATIC S5 CPU 948 central processing unit.
Which PLC system uses Siemens 6ES5948-3UA11?	It is assigned to the S5-155U programmable controller.
What memory capacity is documented for Siemens 6ES5948-3UA11?	The article is identified with 640 Kbyte memory capacity.
Which programming environment applies to Siemens 6ES5948-3UA11?	The application is managed in SIMATIC STEP 5.
What must be backed up before replacing Siemens 6ES5948-3UA11?	Back up the STEP 5 program, configuration and operating parameters.
What completes commissioning of Siemens 6ES5948-3UA11?	Verify CPU status, operating mode, I/O communication, interlocks and sequence control.

RELATED MODELS ON APTERPOWER

Siemens 6ES5304-3UB11	Related product reference. Review the complete ordering string before selection.
Siemens 6ES5941-7UB11	Related product reference. Compare the required interface and system position.
Siemens 6ES5470-4UB12	Related product reference. Confirm the execution independently for the intended task.

SOURCE AND SELECTION RECORD

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Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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