

Siemens 6ES5948-3UA11

Complete Product Information

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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Product dossier

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VERIFIED IDENTITY AND ROLE

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

PRODUCT CHARACTERISTICS

- 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.

SELECTION BOUNDARY

Article identity	Use the complete 6ES5948-3UA11 ordering string.
Processor designation	Confirm the CPU 948 marking.
Controller platform	Apply only to the documented S5-155U system.
Engineering environment	Retain the approved STEP 5 project and operating record.

IMPORTANT NOTICE

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

System context and applications



DOCUMENTED SYSTEM RELATIONSHIP

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.

COMMON APPLICATIONS

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.

CONFIGURATION RECORDS TO PRESERVE

Rack position	Record the installed slot and adjacent module arrangement.
Program assets	Preserve the STEP 5 user program and hardware configuration.
Memory resources	Identify installed memory media before transfer or replacement.
Interfaces	Label every connected interface before removal.
Operating state	Record CPU mode, indicators and the approved startup condition.

SERVICE INFORMATION PATH

Engineering record	Controlled configuration and project data define the intended system behavior.
Installed record	Module position, interfaces and field labels connect the article to its physical role.
Acceptance record	Diagnostics, communication and functional response provide the release evidence.

Operation, service and recovery

CONTROLLED SERVICE SEQUENCE

1 — Identify	Compare the complete article number and CPU 948 designation with the work order.
2 — Safeguard	Back up the STEP 5 project, hardware setup and operating values.
3 — Record	Document slot, switches, memory resources and interface connections.
4 — Isolate	Remove power and apply the site's electrostatic-discharge controls.
5 — Install	Seat the verified CPU and restore recorded interfaces and configuration.
6 — Validate	Check CPU mode, diagnostics, I/O communication and machine interlocks.

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.

RECOVERY DECISION POINTS

CPU does not reach the recorded mode	Recheck module seating, memory resources and the approved startup procedure.
I/O communication is incomplete	Review rack interfaces, connected resources and the retained hardware configuration.
Controlled sequence differs	Stop release and compare the restored STEP 5 project with the verified backup.

Acceptance record and support

RELEASE EVIDENCE

Identity	6ES5948-3UA11 and its documented product designation verified.
System	Installed position and intended controller or station role confirmed.
Configuration	Controlled project, settings and interface assignments restored.
Communication	Applicable rack, bus, I/O or supply status checked after startup.
Functional response	The intended system response accepted before final release.
Service record	Technician, date, observed status and final disposition recorded.

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.

RELATED SIEMENS MODELS

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 CONTACT

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.

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