

APTER POWER PRODUCT MANUAL

6ES5948-3UR23

SIMATIC S5-155H CPU 948R Processor

The Siemens 6ES5948-3UR23 belongs to the SIMATIC S5-155H CPU 948R processor family. It executes the redundant-controller user program and coordinates memory, communications, and system functions within the S5-155H architecture.

The CPU is used in legacy high-availability automation installations and must be matched to the redundant partner, memory configuration, serial interfaces, system software, and plant program.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-14-6ES5948-3UR23-PM-R1
Revision	R1
Issue date	2026-08-14

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Preserve Redundancy, Memory, and the Complete STEP 5 Baseline.

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
6ES5948-3UR23

1. Product Overview and Identity

The Siemens 6ES5948-3UR23 belongs to the SIMATIC S5-155H CPU 948R processor family. It executes the redundant-controller user program and coordinates memory, communications, and system functions within the S5-155H architecture.

The CPU is used in legacy high-availability automation installations and must be matched to the redundant partner, memory configuration, serial interfaces, system software, and plant program.

Model Configuration

Field	Verified information
Complete model	6ES5948-3UR23
Manufacturer	Siemens
Product description	SIMATIC S5-155H CPU 948R Processor

Key Features

- Exact 6ES5948-3UR23 identity retained
- Manufacturer-source data separated from unconfirmed values
- SIMATIC S5-155H
- System context: SIMATIC S5-155H
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
System	SIMATIC S5-155H
Processor family	CPU 948R
Order-number family	6ES5948-3URxx
PG interface	15-pin serial interface SI1
Second serial interface	SI2
Memory-card receptacle	Provided
Integrated RAM variants	640 kbyte or 1664 kbyte within the CPU 948R family; verify exact unit

Verification Note

Use the complete 6ES5948-3UR23 identifier. CPU 948R is a legacy SIMATIC S5 processor family. Confirm current repair and migration support using the full article and hardware revision. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- The CPU is used in legacy high-availability automation installations and must be matched to the redundant partner, memory configuration, serial interfaces, system software, and plant program.
- Maintains the documented SIMATIC S5-155H system role for this exact article number.
- Provides an exact reference for engineering, maintenance, and quotation review.

Application Areas

Application	System role
High-availability process control	Execute redundant S5-155H automation logic.
Continuous production	Maintain controller availability in legacy plants.
S5 migration projects	Capture CPU memory and interface configuration before conversion.

Compatible Components

- S5-155H rack, redundant partner CPU, and system configuration documented for the plant
- Memory card and interface submodules permitted by the exact CPU manual
- Original STEP 5 program, system parameters, and communications configuration

Lifecycle Status

CPU 948R is a legacy SIMATIC S5 processor family. Confirm current repair and migration support using the full article and hardware revision.

4. Installation Precautions

- Back up the complete STEP 5 program and system data
- Record the redundant-partner and synchronization configuration
- Verify memory size from the physical CPU label
- Observe S5-155H replacement procedures
- Do not swap CPU revisions without compatibility review

STOP - Verify before installation

Use the complete 6ES5948-3UR23 identifier. CPU 948R is a legacy SIMATIC S5 processor family. Confirm current repair and migration support using the full article and hardware revision. Values not published in the cited Siemens source are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens S5-155H CPU 948R manuals covering the 6ES5948-3URxx family.

Apter Power product page

<https://www.apterpower.com/Siemens/6ES5948-3UR23>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.