

6ES5470-4UB12

Analog Output Module

PRODUCT AND SYSTEM TECHNICAL REFERENCE

It generates eight floating plus-or-minus ten-volt command signals for actuators connected to a SIMATIC S5 compact U-periphery station.

- Provides eight analog output channels
- Generates plus-or-minus ten-volt signals
- Uses floating outputs referred to 0 V
- Fits the compact U-periphery analog position

VERIFIED IDENTITY

Article number	6ES5470-4UB12
Module designation	SIMATIC S5 470 analog output module
Analog outputs	8
Output range	+/-10 V
Electrical arrangement	Floating; eight outputs referred to 0 V
Mechanical version	Compact version U

Official source: Siemens SIMATIC S5 U Periphery Instructions and exact Industry Mall article record
Publication: C79000-B8576-C300-06; exact MLFB product record

APPLICATION SNAPSHOT

Eight-channel actuator command	Provides independent analog commands to field devices.
Variable-speed reference generation	Supplies bipolar speed or process references.
Control-valve positioning	Positions compatible modulating actuators.
S5 analog-output replacement	Restores all output ranges and addresses in the original slot.

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TECHNICAL SPECIFICATIONS

Article number	6ES5470-4UB12
Module designation	SIMATIC S5 470 analog output module
Analog outputs	8
Output range	+/-10 V
Electrical arrangement	Floating; eight outputs referred to 0 V
Mechanical version	Compact version U
Lifecycle	Discontinued; deleted without replacement
Lifecycle effective date	1 October 2010
Export classification	ECCN N; AL N
Siemens catalog identifier	ST9-E5
Product group	4309
Packaging quantity	1 piece

MATCHED COMPONENTS

- SIMATIC S5 U-periphery rack
- approved analog actuator and reference wiring
- shielded signal cable and load-supply filtering
- S5 output address and scaling configuration

TECHNICAL ACCEPTANCE CRITERIA

Exact identity	Complete 6ES5470-4UB12 marking matches the controlled record
System match	Installed position belongs to the SIMATIC S5 compact U-periphery system
Companion hardware	All required rack, connector, field and project items are reconciled
Electrical limits	Supply, ranges and signal values remain within the named Siemens data
Diagnostics	Module, rack, network and host indications are understood and accepted
Controlled response	The eight floating plus-or-minus ten-volt outputs function is proven and recorded

Record output polarity, scale, load and shield termination for every channel; verify the documented 24 V load-supply filtering used by the installed system.

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SYSTEM INTEGRATION & FAQ

DOCUMENTED APPLICATIONS

Eight-channel actuator command	Provides independent analog commands to field devices.
Variable-speed reference generation	Supplies bipolar speed or process references.
Control-valve positioning	Positions compatible modulating actuators.
S5 analog-output replacement	Restores all output ranges and addresses in the original slot.

PRODUCT PRECAUTIONS

- Verify the complete 6ES5470-4UB12 marking and the assigned SIMATIC S5 compact U-periphery system position before work.
- Isolate all applicable power and eight floating plus-or-minus ten-volt outputs field energy before disconnection.
- Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- Restore power in a controlled sequence and review module, rack and host diagnostics.
- Place the connected eight-channel actuator command process in the approved maintenance state.
- Record every connector, conductor, address, jumper and project identity before removal.
- Confirm the installed SIMATIC S5 U-periphery rack and approved analog actuator and reference wiring against the approved system record.
- Prove the intended variable-speed reference generation function and retain the final acceptance result.

ENGINEER FAQ — PART 1

1	Which signal range is produced by Siemens 6ES5470-4UB12?	The exact 470-4UB12 article provides eight analog outputs with a plus-or-minus 10 V range.
2	How are the eight outputs arranged on 6ES5470-4UB12?	Siemens documents them as floating outputs referred to 0 V, so the installed reference and shield scheme must be retained.
3	What process devices can 6ES5470-4UB12 command?	It can provide documented bipolar voltage references to compatible drives, positioners or other analog loads within the engineered system.

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4	Why must polarity be recorded channel by channel for 6ES5470-4UB12?	Reversing a bipolar output or its reference can reverse the commanded process response.
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ENGINEER FAQ & RELATED PRODUCTS

1	Which load-supply check is relevant to 6ES5470-4UB12?	The Siemens instructions identify filtering for the 24 VDC load supply in applicable installations; confirm the installed filter and wiring.
2	Can 6ES5470-4UB12 be treated like the current-output 470 variants?	No. The UB12 identity is the eight-channel plus-or-minus 10 V variant; verify complete suffix and signal type.
3	What is the lifecycle status of 6ES5470-4UB12?	Siemens lists the product as discontinued since October 2010 and deleted without replacement.
4	How is 6ES5470-4UB12 commissioned safely?	Command controlled negative, zero and positive values on each output and verify the correct field response, scale and diagnostics.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330162 03 45 45 05 05 94 01 02	Related industrial automation product
02	Bently Nevada 86691 00750 0435 15	Related industrial automation product
03	Bently Nevada 200350 02 00 01	Related industrial automation product
04	Bently Nevada 21500 00 12 10 02	Related industrial automation product
05	Bently Nevada 21500 00 32 05 02	Related industrial automation product
06	GE IC670GBI002	Related industrial automation product
07	GE IC670GBI001	Related industrial automation product
08	Bently Nevada 330851 04 000 040 10 01 00	Related industrial automation product

Manufacturer source	Siemens SIMATIC S5 U Periphery Instructions and exact Industry Mall article record
Publication	C79000-B8576-C300-06; exact MLFB product record
Technical boundary	Values are limited to this exact-model source record
Acceptance evidence	Retain the as-left identity, diagnostics and controlled test result

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