

6ES5451-4UA12

Digital Output Module

COMPLETE PRODUCT INFORMATION

It provides thirty-two floating 24 VDC outputs rated at 0.5 A for an installed SIMATIC S5 compact U-periphery station.

- Provides thirty-two digital outputs
- Supports 0.5 A per output
- Uses floating 24 VDC output circuits
- Fits the documented compact U-periphery position

VERIFIED IDENTITY

Article number	6ES5451-4UA12	Module designation	SIMATIC S5 451 digital output module
Output count	32	Output supply	24 V DC
Rated output current	0.5 A per output	Electrical arrangement	Floating outputs

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

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TECHNICAL DATA

Article number	6ES5451-4UA12	Module designation	SIMATIC S5 451 digital output module
Output count	32	Output supply	24 V DC
Rated output current	0.5 A per output	Electrical arrangement	Floating outputs
Mechanical version	Compact version U	Lifecycle	Discontinued; deleted without replacement
Lifecycle effective date	1 October 2002	Export classification	ECCN N; AL N
Packaging quantity	1 piece	Siemens catalog identifier	ST9-E5

APPLICATIONS & SYSTEM COMPONENTS

Thirty-two-point actuator command	Commands a dense bank of discrete field loads.
Solenoid and relay output control	Switches documented 24 VDC solenoids or interposing relays.
SIMATIC S5 machine sequencing	Executes machine-output logic from the installed S5 controller.
S5 output-module replacement	Restores the exact floating-output position without changing addresses.

- SIMATIC S5 U-periphery rack
- approved front connector and field wiring
- documented 24 VDC load supply and output commons
- S5 controller project and output address map

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PRECAUTIONS & ENGINEER FAQ

PRODUCT PRECAUTIONS

- Verify the complete 6ES5451-4UA12 marking and the assigned SIMATIC S5 compact U-periphery system position before work.
- Isolate all applicable power and thirty-two 24 vdc output circuits 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 thirty-two-point 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 documented 24 VDC load supply and output commons against the approved system record.
- Prove the intended solenoid and relay output control function and retain the final acceptance result.

ENGINEER FAQ — PART 1

1	What output function identifies Siemens 6ES5451-4UA12?	It is the SIMATIC S5 451 compact-U digital output module with thirty-two floating outputs.
2	Which load supply and channel rating apply to 6ES5451-4UA12?	Use the documented 24 VDC load supply and keep each output within the published 0.5 A rating.
3	Why must all thirty-two addresses be recorded before removing 6ES5451-4UA12?	The module represents a complete 32-point bank; preserving the slot and point map prevents output-address shifts.

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4	How should floating circuits be handled on 6ES5451-4UA12?	Retain the documented group supplies, commons and isolation boundaries instead of joining circuits during rewiring.
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ENGINEER FAQ & RELATED PRODUCTS

1	Which mechanical position is intended for 6ES5451-4UA12?	Install it only in the approved SIMATIC S5 compact U-periphery position with the recorded front connector.
2	What does the lifecycle record mean for 6ES5451-4UA12 service?	Siemens lists the article as discontinued and deleted without replacement, so like-for-like identity and project preservation are essential.
3	Can 6ES5451-4UA12 be replaced by a similar 451 suffix automatically?	No. Compare the full MLFB, output count, floating arrangement, voltage, current and connector assignment before any substitution.
4	What commissioning test is required for 6ES5451-4UA12?	Energize the load groups under control and exercise every addressed output while confirming the correct field load and controller indication.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330851 02 000 080 10 00 00	Related industrial automation product
02	Bently Nevada 330851 01 000 020 10 00 00	Related industrial automation product
03	Bently Nevada 330850 91 05	Related industrial automation product
04	Bently Nevada 330876 01 50 01 05	Related industrial automation product
05	Bently Nevada 330876 03 10 00 00	Related industrial automation product
06	Bently Nevada 32000 28 05 15 080 03 02	Related industrial automation product
07	Bently Nevada 32000 28 05 08 080 03 02	Related industrial automation product
08	Bently Nevada 31000 16 10 00 050 03 02	Related industrial automation product

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