

Siemens 505-4532

Complete Product Information

Siemens 505-4532 is a single-wide SIMATIC 505 module with 32 non-latching DC outputs for 6 to 24 V DC loads.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1 Provides 32 DC output channels.	Feature 2 Supports a 6 to 24 V DC rated load supply.
Feature 3 Uses diode kickback protection for inductive loads.	Feature 4 Provides approximately 1 ms ON and OFF delay.

VERIFIED DATA SNAPSHOT

Output channels	32
Rated load supply	6 to 24 V DC
Operating range	4.5 to 34 V DC
Minimum load	5 mA

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
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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.

Output channels	32
Rated load supply	6 to 24 V DC
Operating range	4.5 to 34 V DC
Minimum load	5 mA
Overload	2.0 A for 1 ms
ON-state drop	1.8 V DC
OFF-state leakage	0.2 mA
Protection	Diode kickback; reverse-voltage protection to 34 V DC
Output behavior	Non-latching, unprotected
Module format	Single-wide

SELECTION ANCHORS

- Provides 32 DC output channels.
- Supports a 6 to 24 V DC rated load supply.
- Uses diode kickback protection for inductive loads.
- Provides approximately 1 ms ON and OFF delay.

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	SIMATIC 505 Input/Output Modules User Manual, order number 505-8105-2
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 wiring checks are essential before powering Siemens 505-4532?	Confirm polarity, group commons, load supply and every channel assignment.
How is Siemens 505-4532 functionally tested?	Command each channel and verify the intended DC load changes state without an unexpected fault.

System role and architecture



APPLICATION POINTS

Solenoid control Drive approved DC solenoids within the channel and group load limits.	Indicator and relay drive Switch pilot lights and interposing relays from controller logic.
Machine sequencing Operate distributed DC actuators under PLC interlocks.	Existing-rack maintenance Restore the documented 32-point DC output map in a SIMATIC 505 station.

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 32-point dc output module belongs to the SIMATIC 505 modular control platform. Selection must preserve the documented signal role, terminal arrangement and rack interface.

ENGINEERING REVIEW QUESTIONS

How many loads can Siemens 505-4532 address?	The module provides 32 DC output channels.
Which supply range is rated for Siemens 505-4532?	Its rated load supply is 6 to 24 V DC, with a documented operating range of 4.5 to 34 V DC.
What minimum load applies to Siemens 505-4532?	Each output requires at least 5 mA.
How does Siemens 505-4532 handle inductive switching?	The outputs include diode kickback protection; field-device suppression and wiring must still follow the approved design.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

- 01 Confirm the load supply remains within the documented DC range.
- 02 Isolate both rack power and external load power before service.
- 03 Record every output, common and supply connection before removal.
- 04 Check inductive loads and retain suitable suppression at the field device.
- 05 Confirm group current and individual load current remain within the approved design.
- 06 Replace the fuse only with the documented type and rating.
- 07 Verify output polarity before energizing the field supply.
- 08 Command each output under controlled conditions and confirm the load response.

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

Treat Siemens 505-4532 as one complete execution and verify every field connection before the controlled system returns to service.

APPLICATION BOUNDARIES

Solenoid control	Drive approved DC solenoids within the channel and group load limits.
Indicator and relay drive	Switch pilot lights and interposing relays from controller logic.
Machine sequencing	Operate distributed DC actuators under PLC interlocks.
Existing-rack maintenance	Restore the documented 32-point DC output map in a SIMATIC 505 station.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

How many loads can Siemens 505-4532 address?	The module provides 32 DC output channels.
Which supply range is rated for Siemens 505-4532?	Its rated load supply is 6 to 24 V DC, with a documented operating range of 4.5 to 34 V DC.
What minimum load applies to Siemens 505-4532?	Each output requires at least 5 mA.
How does Siemens 505-4532 handle inductive switching?	The outputs include diode kickback protection; field-device suppression and wiring must still follow the approved design.
Are Siemens 505-4532 outputs latching?	No. They are documented as non-latching outputs.
What switching delay is typical for Siemens 505-4532?	The documented ON and OFF delays are approximately 1 ms.

RELATED MODELS ON APTERPOWER

Siemens 6DS1731-8RR	Related product reference. Review the complete ordering string before selection.
Siemens 6EC1001-0A	Related product reference. Compare the required interface and system position.
Siemens 6DS1719-8RR	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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