

# Siemens 505-6108

## Complete Product Information

Siemens 505-6108 is the legacy double-wide, eight-channel analog input module in the SIMATIC 505 family and is the wiring-compatible predecessor to the single-wide 505-6108A and 505-6108B versions.

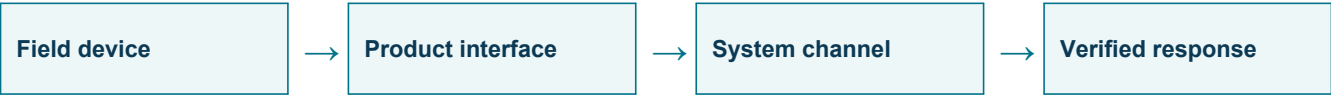
### PRODUCT ROLE AND VERIFIED FEATURES

|                                                                                                        |                                                                  |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Feature 1</b><br>Provides eight analog input channels.                                              | <b>Feature 2</b><br>Uses the earlier double-wide module format.  |
| <b>Feature 3</b><br>Shares field wiring compatibility with the later 505-6108A and 505-6108B versions. | <b>Feature 4</b><br>Uses the SIMATIC 505 analog input data path. |

### VERIFIED DATA SNAPSHOT

|                   |                                               |
|-------------------|-----------------------------------------------|
| Signal role       | Analog input                                  |
| Input channels    | 8                                             |
| Module generation | Legacy predecessor to 505-6108A and 505-6108B |
| Module format     | Double-wide                                   |

### SYSTEM RELATIONSHIP



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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.

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| Signal role        | Analog input                                                           |
| Input channels     | 8                                                                      |
| Module generation  | Legacy predecessor to 505-6108A and 505-6108B                          |
| Module format      | Double-wide                                                            |
| Replacement wiring | Later single-wide versions can replace it without field-wiring changes |
| Base power         | 4.0 W                                                                  |

## SELECTION ANCHORS

- Provides eight analog input channels.
- Uses the earlier double-wide module format.
- Shares field wiring compatibility with the later 505-6108A and 505-6108B versions.
- Uses the SIMATIC 505 analog input data path.

## 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 Analog I/O Modules User Manual, order number 505-8120-3                               |
| 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

|                                                                        |                                                                                                         |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| How should Siemens 505-6108 values be checked after startup?           | Compare each controller value with a retained process reference across the expected range.              |
| What is required before migrating Siemens 505-6108 to a later version? | Verify rack space, configuration, signal ranges, terminal assignments and the complete acceptance test. |

# System role and architecture



## APPLICATION POINTS

|                                                                                                                     |                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Process measurement</b><br>Acquire eight conditioned analog values for the controller.                           | <b>Legacy rack support</b><br>Maintain the earlier double-wide analog input position.                 |
| <b>Migration planning</b><br>Prepare a controlled transition to the wiring-compatible single-wide A or B execution. | <b>Troubleshooting</b><br>Trace the field signal, terminal path and controller word for each channel. |

## INTEGRATION RECORD

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| <b>Identity</b>             | Record the complete marking and installed position.                   |
| <b>Mechanical interface</b> | Confirm mounting, support, clearance and connector engagement.        |
| <b>Electrical interface</b> | Confirm signal path, shield, common and receiving-channel assignment. |
| <b>Configuration</b>        | Retain the controlled channel settings and acceptance criteria.       |
| <b>Functional evidence</b>  | Record the expected static value, dynamic response and system status. |

The 8-channel analog input module belongs to the SIMATIC 505 modular control platform. Selection must preserve the documented signal role, terminal arrangement and rack interface.

## ENGINEERING REVIEW QUESTIONS

|                                                                                    |                                                                                                                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>How many analog inputs are available on Siemens 505-6108?</b>                   | The module provides eight analog input channels.                                                                                                              |
| <b>Which rack format is used by Siemens 505-6108?</b>                              | The legacy execution is double-wide.                                                                                                                          |
| <b>Which later modules are related to Siemens 505-6108?</b>                        | The 505-6108A and 505-6108B are single-wide successors.                                                                                                       |
| <b>Can a later Siemens 505-6108A or 505-6108B reuse the 505-6108 field wiring?</b> | The manual states that the single-wide versions can replace the older module without wiring changes; configuration and acceptance still require verification. |

# Engineering checks and acceptance

## PRODUCT PRECAUTIONS

- 01 Confirm that the installed module is the legacy 505-6108 execution.
- 02 Reserve the double-wide rack position before installation.
- 03 Record every analog channel, return and shield termination.
- 04 Preserve the configured signal type, range and scaling for each channel.
- 05 Isolate field loops according to the approved process procedure.
- 06 Keep analog wiring separated from noise-producing conductors.
- 07 Verify channel values against retained process references after power-up.
- 08 Complete a controlled migration review before substituting an A or B version.

## 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 505-6108 as one complete execution and verify every field connection before the controlled system returns to service.

## APPLICATION BOUNDARIES

|                     |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Process measurement | Acquire eight conditioned analog values for the controller.                            |
| Legacy rack support | Maintain the earlier double-wide analog input position.                                |
| Migration planning  | Prepare a controlled transition to the wiring-compatible single-wide A or B execution. |
| Troubleshooting     | Trace the field signal, terminal path and controller word for each channel.            |

# Technical questions and related models

## MODEL-SPECIFIC QUESTIONS

|                                                                                    |                                                                                                                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>How many analog inputs are available on Siemens 505-6108?</b>                   | The module provides eight analog input channels.                                                                                                              |
| <b>Which rack format is used by Siemens 505-6108?</b>                              | The legacy execution is double-wide.                                                                                                                          |
| <b>Which later modules are related to Siemens 505-6108?</b>                        | The 505-6108A and 505-6108B are single-wide successors.                                                                                                       |
| <b>Can a later Siemens 505-6108A or 505-6108B reuse the 505-6108 field wiring?</b> | The manual states that the single-wide versions can replace the older module without wiring changes; configuration and acceptance still require verification. |
| <b>What base-power demand is listed for Siemens 505-6108?</b>                      | The SIMATIC 505 system manual lists 4.0 W.                                                                                                                    |
| <b>Which records should be captured before removing Siemens 505-6108?</b>          | Record every channel, return, shield, signal range, scaling and rack position.                                                                                |

## RELATED MODELS ON APTERPOWER

|                             |                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------|
| Siemens 6ES7307-1KA00-0AA0  | Related product reference. Review the complete ordering string before selection.      |
| Siemens 6ES7-153-2BA82-0XB0 | Related product reference. Compare the required interface and system position.        |
| Siemens 6ES5948-3UA11       | Related product reference. Confirm the execution independently for the intended task. |

## SOURCE AND SELECTION RECORD

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Manufacturer source</b> | SIMATIC 505 Analog I/O Modules User Manual, order number 505-8120-3                               |
| <b>Evidence boundary</b>   | Technical statements are limited to the identified product or applicable manufacturer family.     |
| <b>Selection control</b>   | Use the complete ordering string and verify the installed system before purchase or installation. |

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