

INDUSTRIAL AUTOMATION PRODUCT

6ES7590-1AB60-0AA0

SIMATIC S7-1500 Mounting Rail

Siemens 6ES7590-1AB60-0AA0 is a 160 mm SIMATIC S7-1500 mounting rail. It supports and grounds the configured controller and I/O station within the control cabinet.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-1500 automation system
Part number	6ES7590-1AB60-0AA0
Country	Germany
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Rail length	160 mm
Material	Aluminum
Surface execution	Galvanically isolated
Grounding hardware	Grounding screw included
Integrated accessory rail	35 mm DIN profile

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	S7-1500 CPU
Companion hardware	S7-1500 signal and technology modules
Field connection	system power supply
Primary system function	Provides the mechanical carrier for a compact S7-1500 station
Controlled acceptance duty	Compact S7-1500 controller stations

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System Role and Architecture

Siemens 6ES7590-1AB60-0AA0 is a 160 mm SIMATIC S7-1500 mounting rail. It supports and grounds the configured controller and I/O station within the control cabinet.

FUNCTION 1

Provides the mechanical carrier for a compact S7-1500 station

FUNCTION 2

Maintains module alignment and backplane-connector engagement

FUNCTION 3

Provides a defined grounding point for the assembled station

FUNCTION 4

Carries compatible terminals, circuit breakers, or relays on its integrated profile

Matched system components

- S7-1500 CPU
- S7-1500 signal and technology modules
- system power supply
- grounding conductor

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	S7-1500 CPU
Companion hardware	S7-1500 signal and technology modules
Field connection	system power supply
Primary system function	Provides the mechanical carrier for a compact S7-1500 station
Controlled acceptance duty	Compact S7-1500 controller stations

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Applications and Engineering Context

Compact S7-1500 controller stations

Provides the mechanical carrier for a compact S7-1500 station

Machine-control cabinet assembly

Maintains module alignment and backplane-connector engagement

Distributed automation panel retrofit

Provides a defined grounding point for the assembled station

Laboratory and OEM controller mounting

Carries compatible terminals, circuit breakers, or relays on its integrated profile

TECHNICAL NOTE

Mount the 160 mm rail on a flat conductive cabinet surface, install the supplied grounding connection, and verify module order and connector engagement before energizing the S7-1500 station.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7590-1AB60-0AA0 / 6ES7590-1AB60-0AA0 recorded
Physical interface	S7-1500 CPU
Companion check	S7-1500 signal and technology modules
Functional proof	Provides the mechanical carrier for a compact S7-1500 station
Application test	Compact S7-1500 controller stations

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Engineering Precautions

1

Confirm 6ES7590-1AB60-0AA0 and the 160 mm execution before panel work.

2

Isolate cabinet power and protect nearby electronics from drilling debris.

3

Use a flat mounting surface and prevent rail distortion during fastening.

4

Install and test the rail grounding screw and protective conductor.

5

Confirm the planned S7-1500 module sequence fits the available rail length.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP industrial power supply	Open product page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	Open product page

MANUFACTURER SOURCE RECORD

SIMATIC S7-1500 Mounting Rail Product Data
6ES7590-1AB60-0AA0

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