

6ES7590-1AB60-0AA0

SIMATIC S7-1500 Mounting Rail

CONTROLLED ENGINEERING COPY

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	6ES7590-1AB60-0AA0
Manufacturer part	6ES7590-1AB60-0AA0
Hardware type	160 mm
System family	SIMATIC S7-1500 automation system



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 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.

MATCHED HARDWARE

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

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
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

02 WIRING & INTERFACE CHECKS

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

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED 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

FIELD 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.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	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

04 RETURN-TO-SERVICE RECORD

- ☐
- Seat each module and backplane connector without forcing the locking mechanism.

☐☐☐

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

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

SOURCE IDENTIFIERS

SIMATIC S7-1500 Mounting Rail Product Data
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