Siemens 6ES5300-3AB11

Central Rack Interface Module

Product scope

- Starts the centralized expansion interface in an S5-135U or S5-155U controller rack.
- Connects to IM 312-3 receivers through a short parallel rack link.
- Requires the documented terminating plug at the end of the expansion chain.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Siemens 6ES5300-3AB11

Central Rack Interface Module

Product overview

Siemens 6ES5300-3AB11 is the IM 300-3 central-controller interface for a centralized SIMATIC S5-135U or S5-155U expansion arrangement. It links the controller rack to IM 312-3-equipped expansion units over the short parallel interface path.

6ES5300-3AB11 installs on the central-controller side of a SIMATIC S5 centralized expansion connection. It works with IM 312-3 interfaces in EU 183U or suitable EU 185U I/O expansion units.

The parallel rack link transfers peripheral-bus information over a total connection length that must not exceed 2 m. Multiple expansion units may be arranged only in the combinations defined for the S5-135U/155U system.

An exact replacement must retain the central-rack position, fixed-cable IM 312-3 variant and required terminator at the last expansion. This module is not interchangeable with the IM 300-5 interface used for EU 184U/187U hardware.

Technical specifications

Interface designation	IM 300-3
Installation side	Central controller rack
Configuration type	Centralized parallel expansion
Compatible controllers	SIMATIC S5-135U and S5-155U
Expansion unit types	EU 183U; EU 185U for I/O modules only
Matching expansion interface	IM 312-3
Maximum total connection length	2 m
IM 312-3 cable variants	0.5 m or 0.95 m fixed cable
End-of-chain requirement	6ES5760-0AB11 terminator on the last IM 312-3
Data path	Parallel peripheral-bus connection

6ES5300-3AB11 function and operating principle

Ordered configuration

This order number identifies the central-side IM 300-3 and not an expansion-side receiver.

System role

It carries the S5 peripheral interface to nearby EU 183U or approved EU 185U racks.

Selection and installation

Cable length, receiver execution and termination must remain exactly as engineered.

Functional path

- Starts the centralized expansion interface in an S5-135U or S5-155U controller rack.
- Connects to IM 312-3 receivers through a short parallel rack link.
- Requires the documented terminating plug at the end of the expansion chain.

Application scenarios

- S5-155U cabinets can add nearby EU 183U racks without converting the architecture to a distributed network.
- S5-135U systems use the interface where extension I/O remains within the short centralized cable limit.
- Legacy modernization projects can maintain the installed I/O racks while replacing a failed central interface.

6ES5300-3AB11 engineering checks

Compatibility

- The module is documented for S5-135U and S5-155U central controllers.
- Expansion receivers must be IM 312-3 units in the supported EU 183U or EU 185U arrangement.
- IM 300-5 and IM 312-5 hardware belong to a different expansion family.

Configuration

- The complete centralized connection may not exceed 2 m from central rack to last expansion.
- A 0.5 m or 0.95 m fixed-cable IM 312-3 is selected for each expansion position.
- The final receiver requires the specified terminating plug.

Connectivity

- The interface carries the parallel S5 peripheral bus between adjacent cabinet racks.
- Expansion cables are fixed to the receiving IM 312-3 hardware.
- Connector seating and terminator presence should be checked before controller restart.

Critical technical note

Keep the final-rack terminator fitted when replacing Siemens 6ES5300-3AB11; an open IM 300-3 chain can make the expansion I/O unavailable.

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