

Siemens 6ES7360-3AA01-0AA0

Interface Module

Product scope

- Provides the central-rack interface for an S7-300 expansion chain.
- Extends both communication and K-bus signals to as many as three expansion racks.
- Uses the 40 mm S7-300 module format with a 5 V backplane load.

Manufacturer source

Exact-model technical record

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

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Siemens 6ES7360-3AA01-0AA0

Interface Module

Product overview

Siemens 6ES7360-3AA01-0AA0 is the IM 360 interface module installed in an S7-300 central rack. It links the central rack to as many as three expansion racks through the K-bus and communication bus.

6ES7360-3AA01-0AA0 occupies the central-rack side of an S7-300 multi-rack connection. It launches the expansion-bus path used with IM 361 modules and supports up to three connected expansion racks.

The interface extends both the communication bus and K-bus beyond the CPU rack so additional signal and function modules can participate in one controller configuration. Its 350 mA demand from the 5 V backplane must be included in rack power planning.

The expansion-cable topology, receiving IM 361 positions and configured rack numbers must agree with the STEP 7 hardware project. Power should remain off while interface cables are inserted or removed.

Technical specifications

Maximum expansion racks	3
Supported buses	Communication bus and K-bus
Backplane current at 5 V DC	Maximum 350 mA
Power loss	Approximately 2 W
Module width	40 mm
Height	125 mm
Depth	120 mm
Net weight	Approximately 0.243 kg
Mounting location	S7-300 central rack
Receiving interface	IM 361 in expansion rack
Country of origin	Germany

6ES7360-3AA01-0AA0 function and operating principle

Ordered configuration

The order number identifies an IM 360, not the receiving interface installed in an expansion rack.

System role

Its bus drivers carry controller communication and peripheral access across the documented rack chain.

Selection and installation

Rack addresses, cable sequence and the matching IM 361 hardware must be validated against the project.

Functional path

- Provides the central-rack interface for an S7-300 expansion chain.
- Extends both communication and K-bus signals to as many as three expansion racks.
- Uses the 40 mm S7-300 module format with a 5 V backplane load.

Application scenarios

- Large S7-300 cabinets can place additional I/O modules in expansion racks linked to the CPU rack.
- Machine sections with separated module groups use the interface to preserve one controller backplane architecture.
- Legacy expansions can be maintained when the original IM 360/IM 361 topology remains electrically and mechanically intact.

6ES7360-3AA01-0AA0 engineering checks

Installation

- The central rack uses this interface while each connected expansion rack uses the matching receiver module.
- Both communication and K-bus paths are extended through the rack-connection cable.
- The STEP 7 hardware layout must mirror the physical rack numbering.

Configuration

- Up to three expansion racks can be represented behind one central-rack interface.
- Module positions and rack addresses are configured as part of the S7-300 hardware project.
- Existing cable order should be recorded before dismantling a running installation.

Diagnostics

- A missing expansion rack appears through the controller's configured hardware diagnostics.
- Cable seating and receiving-interface power are primary checks after a rack communication fault.
- Backplane-current planning helps prevent faults caused by an overloaded central rack.

Critical technical note

Do not connect or disconnect the S7-300 expansion cable with 6ES7360-3AA01-0AA0 energized; preserve rack numbering and cable order.

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