

Siemens 6ES7962-4AA00-0AC0

Parallel Interface Submodule

Product scope

- Adds one bidirectional AT-compatible printer port to a SIMATIC M7 automation computer.
- Supports the established 03BC, 0378 and 0278 hexadecimal LPT address choices.
- Uses a standard 25-pin D-sub connection for a short Centronics peripheral cable.

Manufacturer source

Exact-model technical record

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

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Siemens 6ES7962-4AA00-0AC0

Parallel Interface Submodule

Product overview

Siemens 6ES7962-4AA00-0AC0 is the SIMATIC M7 IF 962-LPT submodule providing an AT-compatible bidirectional Centronics parallel port. It connects supported printers or parallel peripherals through a 25-pin D-sub interface.

6ES7962-4AA00-0AC0 adds one PC-style parallel channel to a SIMATIC M7-300 or M7-400 carrier. The port is implemented around a 16C552-compatible device and supports the documented AT I/O address selections.

Process reports, labels or other parallel-device data can be transferred directly from the automation computer without a separate external interface converter. Bidirectional operation also permits peripheral status exchange where the application supports it.

The cable should remain within the approximately 3 m Centronics limit, and the configured base address must not conflict with another M7 resource. A replacement also needs the 25-pin pinout and printer-driver expectations from the original application.

Technical specifications

Interface type	Bidirectional Centronics parallel port
PC compatibility	AT-compatible LPT interface
Connector	25-pin D-sub
Controller component	16C552-compatible interface
Maximum cable length	Approximately 3 m
Selectable address	03BCh, 0378h or 0278h
Alternative reserved range	From C000h
Submodule identifier	44H
M7-300 current consumption	0.04 A at 24 V
M7-400 current consumption	0.1 A at 5 V
Power loss	0.5 W
Data direction	Bidirectional
Carrier systems	SIMATIC M7-300 and M7-400
Peripheral class	Parallel printer or compatible device
Mechanical format	M7 interface submodule

6ES7962-4AA00-0AC0 function and operating principle

Ordered configuration

The selected part is the IF 962-LPT hardware interface with submodule code 44H.

System role

It enables direct communication with a supported parallel peripheral from the M7 application environment.

Selection and installation

Address assignment, driver support and cable length should be validated before transferring an existing printer workflow.

Functional path

- Adds one bidirectional AT-compatible printer port to a SIMATIC M7 automation computer.
- Supports the established 03BC, 0378 and 0278 hexadecimal LPT address choices.
- Uses a standard 25-pin D-sub connection for a short Centronics peripheral cable.

Application scenarios

- Legacy machine systems can print batch labels through the same parallel path used by the original M7 application.
- Process computers can send shift or quality reports to an attached Centronics printer.
- Test equipment may exchange byte-wide peripheral data where the documented bidirectional port mode is supported.

6ES7962-4AA00-0AC0 engineering checks

Communication & Connectivity

- The external port follows the bidirectional Centronics parallel interface convention.
- Peripheral wiring uses a 25-pin D-sub connector and a cable of about 3 m or less.
- A 16C552-compatible device provides the hardware interface inside the submodule.

Interoperability

- The submodule is designed for SIMATIC M7-300 and M7-400 carrier environments.
- Connected printers or peripherals must support the electrical and timing behavior of a PC parallel port.
- Application software must address the same LPT resource used by the former installation.

Firmware & Updates

- The operating system or application driver determines how the Centronics channel is accessed.
- No fieldbus firmware conversion is required because the submodule exposes a hardware LPT interface.
- Software migration should preserve the configured hexadecimal base address and printer control sequence.

Critical technical note

Keep the 6ES7962-4AA00-0AC0 parallel lead near the 3 m limit and confirm the selected I/O address is not used by another M7 device.

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