

Siemens 6ES7962-1BA00-0AC0

SIMATIC M7 IF962-VGA interface module

Product scope

- The IF962-VGA provides a 15-pin VGA output and 6-pin keyboard/mouse connection.
- A WD90C24 controller and 1 MB video RAM support modes up to 1024 x 768 with 256 colors.
- The compact 18.2 x 67 x 97 mm module weighs approximately 85 g.

Manufacturer source

Siemens SIMATIC M7 IF962 interface module manual.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

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Siemens 6ES7962-1BA00-0AC0

SIMATIC M7 IF962-VGA interface module

Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

Interface module	IF962-VGA
Supported systems	SIMATIC M7-300 and M7-400
Video connector	15-pin VGA
Keyboard connector	6-pin
Local I/O cable	Maximum 2.5 m
Maximum modules	One per CPU or function module
Video controller	WD90C24
Video memory	1 MB
Maximum resolution	1024 x 768 with 256 colors
24 V current	Approximately 0.21 A
5 V current	Approximately 0.6 A
Power dissipation	Approximately 2.5 W
Dimensions	18.2 x 67 x 97 mm
Mass	Approximately 0.085 kg
VGA memory window	A0000 to C7FFF hex
I/O address windows	060 to 06F, 3B0 to 3BB and 3BF to 3DF hex
Keyboard interrupt	IRQ 1
Mouse interrupt	IRQ 12
Submodule identification	81 hex
Keyboard/mouse connector	6-pin mini-DIN

Product function and system role

Exact configuration

Siemens 6ES7962-1BA00-0AC0 is the IF962-VGA interface module for SIMATIC M7-300 and M7-400 CPUs or function modules. It adds a local VGA display plus keyboard and mouse connectivity.

The IF962-VGA identified by 6ES7962-1BA00-0AC0 provides a PC-compatible local operator interface for supported SIMATIC M7 hardware. A 15-pin VGA connector carries the display signal, while a 6-pin mini-DIN interface connects the documented keyboard and pointing-device arrangement.

Functional role

The module maps its VGA controller and peripheral interrupts into the automation computer's PC-compatible resource space.

This order code is the local graphics and input-device interface for compatible M7-300 and M7-400 hosts.

Key operating characteristics

- The IF962-VGA provides a 15-pin VGA output and 6-pin keyboard/mouse connection.
- A WD90C24 controller and 1 MB video RAM support modes up to 1024 x 768 with 256 colors.
- The compact 18.2 x 67 x 97 mm module weighs approximately 85 g.

Operating principle and application guidance

Working principle

A WD90C24 graphics controller with 1 MB video memory supports the listed display modes up to 1024 x 768 with 256 colors. The module also claims defined memory and I/O windows together with IRQ 1 for the keyboard and IRQ 12 for the mouse, so it must coexist with the rest of the M7 resource map.

Confirm host support, one-module limit, cable length and BIOS allocation before connecting the original monitor and keyboard set.

Application scenarios

- Commissioning engineers can attach a local monitor to inspect an M7 application without a remote engineering station.
- Maintenance consoles can provide keyboard and pointing-device input for diagnostics on supported CPUs or function modules.
- Legacy machine HMIs can retain a direct VGA display path when the existing software depends on the IF962 resource map.

Integration and replacement boundary

Only one interface is permitted per supported CPU or function module, and the local cable is limited to about 2.5 m. Before replacing the card, confirm the host platform, configured VGA mode, BIOS resource allocation and attached peripherals.

Critical technical check

Install only one 6ES7962-1BA00-0AC0 per supported CPU or function module and preserve its memory, I/O and IRQ assignments; resource conflicts can prevent the M7 system from starting correctly.

Manufacturer evidence used

- Siemens SIMATIC M7 IF962 interface module manual.
- Official source: https://support.industry.siemens.com/cs/attachments/19539653/425rfh_e.pdf

Exact product identity checked: Siemens 6ES7962-1BA00-0AC0



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