

Siemens 6ES7478-2BA00-0AC0

SIMATIC M7-400 MSM478 mass-storage module

Product scope

- The module combines a 3.5-inch 1.44 MB floppy drive with a hard disk of at least 516 MB.
- An AT-compatible bidirectional LPT1 port is exposed through a 25-pin sub-D connector.
- The 5 V assembly draws about 1 A and has a stated power loss of approximately 5 W.

Manufacturer source

Siemens SIMATIC M7-400 mass-storage module manual supplied by the user.

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 6ES7478-2BA00-0AC0

SIMATIC M7-400 MSM478 mass-storage module

Verified technical specifications

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

Module designation	MSM478
Parallel interface	LPT1
Floppy drive	3.5 inch, 1.44 MB
Hard-disk capacity	At least 516 MB in the documented execution
Backplane connector	120-pin
External connector	25-pin sub-D for LPT1
I/O address	03BC to 03BE
Interrupt	IRQ 7
Maximum printer cable	3 m
Supply	5 V DC, approximately 1 A
Power dissipation	Approximately 5 W
Dimensions	25 x 290 x 210 mm
Mass	Approximately 1.08 kg
Operating temperature without forced ventilation	0 to +40 deg C
Operating temperature with forced ventilation	0 to +55 deg C without disk; 0 to +40 deg C with disk
Operating temperature change	Maximum 10 K/h
Relative humidity	8 to 80% at 25 deg C, non-condensing
Operating altitude	-50 to 2000 m
Storage temperature	-10 to +60 deg C
Storage temperature change	Maximum 20 K/h

Product function and system role

Exact configuration

Siemens 6ES7478-2BA00-0AC0 is the SIMATIC M7-400 MSM478 mass-storage module with a 3.5-inch 1.44 MB floppy drive, hard disk and LPT1 interface. It supports program and operating-system storage in legacy M7 stations.

MSM478, ordered as 6ES7478-2BA00-0AC0, adds local mass storage and a bidirectional parallel port to the M7-400 computer platform. The documented execution contains a 1.44 MB floppy drive, a hard disk of at least 516 MB and a 25-pin sub-D connector for LPT1.

Functional role

Backplane access links the drives and LPT controller to the automation computer's legacy PC-compatible resources.

The full order number identifies MSM478, the storage and parallel-interface module for SIMATIC M7-400.

Key operating characteristics

- The module combines a 3.5-inch 1.44 MB floppy drive with a hard disk of at least 516 MB.
- An AT-compatible bidirectional LPT1 port is exposed through a 25-pin sub-D connector.
- The 5 V assembly draws about 1 A and has a stated power loss of approximately 5 W.

Operating principle and application guidance

Working principle

The module occupies the published I/O address range 03BC–03BE hex and uses IRQ 7 for the parallel interface. It draws about 1 A from the 5 V supply and dissipates approximately 5 W, while the installed disk constrains the permissible operating temperature even when forced ventilation is available.

Create verified media images and document BIOS, address and interrupt settings before swapping the 1.08 kg module.

Application scenarios

- M7 programs and operating-system files can reside on the internal hard disk for local autonomous operation.
- Legacy transfer or maintenance procedures can use the 1.44 MB floppy drive where the application still depends on it.
- A compatible printer or parallel peripheral can be attached to the documented LPT1 interface with a cable up to 3 m.

Integration and replacement boundary

Storage content is often more important than the removable hardware itself. A sector-level backup, BIOS and LPT resource record, operating-system driver inventory and application recovery test should be completed before the original MSM478 is disturbed.

Critical technical check

Back up the hard disk of 6ES7478-2BA00-0AC0 before power-down and preserve LPT1 address 03BC–03BE hex with IRQ 7; replacement hardware alone does not restore the M7 application.

Manufacturer evidence used

- Siemens SIMATIC M7-400 mass-storage module manual supplied by the user.
- Exact product identity checked: Siemens 6ES7478-2BA00-0AC0



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