

Siemens 6ES7478-2CA00-0AC0

SIMATIC M7-400 ATM478 short AT-card expansion module

Product scope

- One short AT card is accommodated through a dedicated 98-pin interface.
- The module supplies +5 V, -5 V, +12 V and -12 V rails with published current limits.
- INTF monitoring covers the -5 V, +12 V and -12 V auxiliary supplies.

Manufacturer source

Siemens SIMATIC M7-400 expansion 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 6ES7478-2CA00-0AC0

SIMATIC M7-400 ATM478 short AT-card expansion 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	ATM478
Supported expansion	One short AT card
Backplane connectors	120-pin left, 120-pin right and 98-pin AT connector
Supply	5 V DC
Current consumption	Approximately 0.12 A
Power dissipation	Approximately 0.6 W
Module dimensions	25 x 290 x 230 mm
Mass	Approximately 0.74 kg
Maximum AT-card size	164 x 106.5 x 14 mm
AT-card +5 V capacity	4 A
AT-card +12 V capacity	500 mA
Voltage monitoring	-5 V, +12 V and -12 V with INTF indication
Loss budget without forced ventilation	10 W including the AT card
Loss budget with forced ventilation	12 W including the AT card

Product function and system role

Exact configuration

Siemens 6ES7478-2CA00-0AC0 is the SIMATIC M7-400 ATM478 expansion module for one short AT-format card. It supplies and monitors the AT rails while passing the M7 backplane through paired 120-pin connectors.

The ATM478 identified by 6ES7478-2CA00-0AC0 extends a SIMATIC M7-400 automation computer with one approved short AT card. A 98-pin AT connector accepts the peripheral, while left and right 120-pin interfaces continue the M7 module chain through the station.

Functional role

Backplane signals pass through the twin 120-pin connectors while local conversion distributes and supervises the AT supply rails.

This order number maps to ATM478, the M7-400 carrier used to add one legacy AT peripheral.

Key operating characteristics

- One short AT card is accommodated through a dedicated 98-pin interface.
- The module supplies +5 V, -5 V, +12 V and -12 V rails with published current limits.
- INTF monitoring covers the -5 V, +12 V and -12 V auxiliary supplies.

Operating principle and application guidance

Working principle

The base module draws about 0.12 A from 5 V and supplies the inserted card with +5 V, -5 V, +12 V and -12 V rails within defined current limits. Monitoring of the three auxiliary rails raises the INTF indication when a required AT supply is not within the expected condition.

Match the card dimensions, rail demand, driver and cooling method before reinstalling the peripheral in the expanded station.

Application scenarios

- M7-400 stations can host a supported communication or peripheral interface supplied as a short AT card.
- Legacy automation computers can retain application-specific AT hardware while the carrier preserves the M7 bus chain.
- Service teams can isolate an INTF condition by checking the monitored auxiliary rails and the inserted peripheral load.

Integration and replacement boundary

The peripheral card's 164 x 106.5 x 14 mm envelope and power loss determine whether the assembly can operate with or without forced ventilation. Driver support, slot resources and the total thermal budget must be verified before an AT card is transferred to a spare ATM478.

Critical technical check

Before fitting an AT card to 6ES7478-2CA00-0AC0, calculate the card's rail currents and loss power; the ATM478 permits 10 W without forced air and 12 W with forced ventilation.

Manufacturer evidence used

- Siemens SIMATIC M7-400 expansion module manual supplied by the user.
- Exact product identity checked: Siemens 6ES7478-2CA00-0AC0



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