ABB PM5670-2ETH 1SAP151000R0278

Complete Product Information

PM5670-2ETH 1SAP151000R0278 is an AC500 processor module with 160 MB memory, two Ethernet interfaces, serial communication and CAN. The R0278 revision is the limited/classic hardware generation and must be paired with its approved terminal base and compatible firmware project.

01 Product identity and verified data

Complete model	PM5670-2ETH 1SAP151000R0278
Product type	AC500 Programmable Logic Controller CPU Module
Manufacturer	ABB
Technical source	ABB product record 1SAP151000R0278 and AC500 catalog 3ADR020077C0204 Rev F
Supply voltage	24 Vdc
Memory	160 MB
Minimum instruction time, bit	0.002 microseconds
Minimum instruction time, word	0.002 microseconds
Minimum instruction time, floating point	0.002 microseconds
Ethernet interfaces	2
Serial interface	RS-232/RS-485
CAN interface	Integrated

Engineering purpose

The R0278 module combines the AC500 application processor with onboard Ethernet, serial and CAN interfaces for compact control stations.

Selected order-code snapshot

Controller resources	160 MB memory with 0.002 microsecond minimum bit, word and floating-point instruction times
Integrated interfaces	Two Ethernet ports plus RS-232/RS-485 and CAN
Hardware boundary	R0278 revision 2 requires the TB56xx-2ETH terminal base and a revision-compatible AC500 project

02 Technical capability and engineering overview

Required terminal base	TB56xx-2ETH
Published product weight	0.133 kg
Revision status	R0278 revision 2; Limited / Classic
Successor revision	1SAP151000R0378 revision 3

Evidence boundary

Exact R0278 order identity and ABB-published PM5670-2ETH revision-2 processor, interface and lifecycle fields.

Engineering overview

The two Ethernet interfaces support AC500 controller networking while the serial and CAN interfaces retain the project-specific field connections. Port allocation and addressing must be recovered from the installed configuration before exchange.

R0278 identifies revision 2 hardware. ABB lists the feature-compatible R0378 revision 3, but revision 3 requires CPU firmware 3.6.0 or later and is not a blind swap for an older project.

The PM5670-2ETH processor mounts on the TB56xx-2ETH terminal base. Inspect the base contacts, retained wiring and stored application before removing the CPU.

Application map

AC500 machine control

Execute the retained IEC control application with the recorded task timing and I/O mapping.

Dual-Ethernet controller node

Restore the two port roles, IP addresses and protocol settings from the commissioned project.

Serial and CAN integration

Match the installed RS-232/RS-485 and CAN wiring, baud rate and protocol allocation.

Revision-2 maintenance

Use R0278 where the approved installation and firmware record require the revision-2 processor.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to PM5670-2ETH 1SAP151000R0278 and the documented ABB AC500 PM56xx-2ETH CPU context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

Preserve the TB56xx-2ETH base, 24 Vdc supply, both Ethernet assignments, serial/CAN wiring and the revision-2 application archive.

04 Lifecycle, offered scope and related references

Lifecycle status

Exact hardware phase	ABB identifies 1SAP151000R0278 revision 2 as Limited / Classic.
Published successor	ABB lists 1SAP151000R0378 revision 3 as the feature-compatible successor.
Migration condition	Revision 3 requires CPU firmware 3.6.0 or later; project and terminal-base compatibility must be checked before release.

Available unit details

Supply scope	One PM5670-2ETH R0278 processor module; TB56xx-2ETH base, memory media and field wiring are separate unless quoted.
Unit evidence	Request the complete 1SAP151000R0278 label, revision marking, connector condition and front-display photograph.

Configuration handover	Keep the application archive, firmware version, network addressing and I/O allocation with the unit record.

Source and applicability record

Verified source	ABB product record 1SAP151000R0278 and AC500 catalog 3ADR020077C0204 Rev F
Applicability boundary	Exact R0278 order identity and ABB-published PM5670-2ETH revision-2 processor, interface and lifecycle fields.
Product family	ABB AC500 PM56xx-2ETH CPU

Additional related product references

Related product	ABB ZINT-571 3AUA0000077333
Related product	ABB CI858K01 3BSE018135R1
Related product	ABB PM511V16 3BSE011181R1
Related product	ABB BCU-12 3AUA0000110430

Product-specific purchasing decisions

What controller family contains PM5670-2ETH 1SAP151000R0278?	It is an ABB AC500 PM56xx-2ETH processor module.
How much memory is published for PM5670-2ETH 1SAP151000R0278?	ABB publishes 160 MB.
Which network interfaces are integrated in PM5670-2ETH 1SAP151000R0278?	Two Ethernet interfaces, RS-232/RS-485 and CAN are integrated.
Which terminal base is required for PM5670-2ETH 1SAP151000R0278?	Use the TB56xx-2ETH base identified for the PM56xx-2ETH hardware.
What lifecycle phase applies to PM5670-2ETH 1SAP151000R0278?	The R0278 revision-2 record is Limited / Classic.
What successor is listed for PM5670-2ETH 1SAP151000R0278?	ABB lists 1SAP151000R0378 revision 3 as feature-compatible, subject to firmware and project checks.

Model-specific release records

Hardware evidence	Record order number, hardware revision and TB56xx-2ETH base identity.
Software evidence	Archive project, firmware, retain data and checksum.
Operational evidence	Record task cycle, link state, communication diagnostics and I/O proof.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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