

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB PM581-ETH 1SAP140100R0170

Product Reference

ABB AC500 Ethernet CPU module

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB PM581-ETH 1SAP140100R0170
Reference number	1SAP140100R0170
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/1sap140100r0170>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB PM581-ETH 1SAP140100R0170 is an evidence-bounded AC500 Ethernet CPU module. System role: It executes AC500 control applications and provides integrated Ethernet communication in the documented terminal-base architecture. System context: ABB AC500 Ethernet CPU module.

Published field	Manufacturer-published value or verified identity note
Exact model	PM581-ETH
ABB order number	1SAP140100R0170
Program memory	256 kB
Process supply	24 VDC
Integrated communication	Ethernet
Official product weight	0.15 kg
Lifecycle	Obsolete in ABB lifecycle statement

System function and signal path

- 01 System Inputs: It executes AC500 control applications and provides integrated Ethernet communication in the documented terminal-base architecture.
- 02 Processing: Verify the exact TB521-ETH base, firmware, communication settings, I/O configuration and migration plan before replacement.

Applications, answers, and official sources

1 Installed-base maintenance: Supports evidence-led identification and replacement planning for ABB PM581-ETH ISAPI40100R0170.

2 System documentation: Provides a source-traceable boundary for the documented AC500 PLC system configuration.

3 Commissioning review: Guides identity, companion-hardware, wiring and controlled functional checks before return to service.

4 Migration assessment: Separates exact-model facts from successor, sibling and family-level information.

Frequently asked questions

What is ABB PM581-ETH ISAPI40100R0170?	It is an evidence-bounded AC500 Ethernet CPU module; this page is limited to the cited manufacturer evidence.
Is the exact identity verified?	Verified Exact Model And Order Id.
What is its system role?	It executes AC500 control applications and provides integrated Ethernet communication in the documented terminal-base architecture.
Which installed-base context is documented?	AC500 PLC system.
Are related models automatic substitutes?	No. A sibling, repair code, suffix or engineering replacement is not an unconditional drop-in approval.
Must the physical label be checked?	Yes. Verify the model, revision, firmware and all order or configuration suffixes.

Official ABB sources

ABB AC500 product catalog	https://library.e.abb.com/public/00a8edb491824cd98a8a07968864175d/ISDC023001D0901.pdf
ABB AC500 lifecycle statement	https://library.e.abb.com/public/c013b2cbbcd6420ea3aaa26b3ea1b0fb/3ADR025089K0201_Lifecycle_State ment_AC500_CPU_CM_TB_Obsolete_2012-12-13.pdf
ABB First Step with AC500 on Ethernet	https://library.e.abb.com/public/98c46ce5293e4c9dbd39d4dbf46ad7e2/Step8_First_Step_with_AC500_o n_Ethernet.pdf
ABB AC500 MTBF calculation	https://library.e.abb.com/public/55df5ddcc14e49f3b79f7260efd1b1dc/3ADR020160K0201_MTBf-AC500-S500 _2025-12-10.pdf