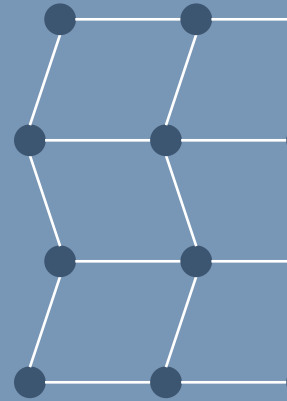


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB PM566-TP-ETH 1SAP121500R0071

PM566-TP-ETH PLC Installation Guide

ABB PM566-TP-ETH AC500-eCo PLC Processor Module



DOCUMENT SCOPE

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

Product / lookup identity	ABB PM566-TP-ETH 1SAP121500R0071
Reference number	1SAP121500R0071
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/pm566-tp-eth-1sap121500r0071>

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PLC logic, onboard I/O, expansion, and communication path

ABB PM566-TP-ETH, order code 1SAP121500R0071, is a Classic AC500-eCo programmable logic controller processor module with 512 kB program memory, onboard mixed I/O, RS-485 communication, and Ethernet. It executes cyclic and time-controlled PLC application logic, coordinates onboard and expansion I/O, and exchanges control and diagnostic data with connected devices.

01	Digital Inputs: Six 24 V DC onboard inputs. ABB states that two can serve as counter inputs or up to four as interrupt inputs; the two analog inputs can also be configured as 24 V DC digital inputs, giving up to eight onboard digital inputs.
02	Digital Outputs: Six 24 V DC transistor outputs rated 0.5 A nominal per channel for commands to compatible field loads through the specified terminal blocks and protection.
03	Analog Inputs: Two 0...10 V channels for voltage signals, alternatively configurable as 24 V DC digital inputs.
04	Analog Output: One configurable voltage/current output: 0...10 V, 0...20 mA, or 4...20 mA.
05	Logic Processing: 512 kB program memory; cyclic and time-controlled execution with interruption support. ABB publishes 0.08 ms binary, 0.1 ms word, and 1.2 ms floating-point cycle times for 1000 instructions.

Classic lifecycle, mixed-I/O, and migration boundaries

01	Verification Status: VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM_ABB_PRODUCT_PAGE_AND_CURRENT_ABB_DATA_SHEET
02	Exact Mapping: ABB maps 1SAP121500R0071 to PM566-TP-ETH and describes it as an AC500 programmable logic controller with 512 kB program memory, 6 digital inputs, 6 transistor digital outputs, 2 analog inputs, 1 analog output, 24 V DC supply, and Ethernet.
03	Lifecycle Status: Classic. ABB data sheet 3ADR010065 revision 11 dated 2024-01-05 says Classic modules remain available from stock but are not recommended for planning and commissioning new installations.

Power, terminals, I/O, serial, Ethernet, and commissioning checks

01	Verify PM566-TP-ETH and ISAPI21500R0071 on the physical label; do not substitute PM556, PM564, or a V3 PM56xx CPU by appearance.
02	Because the article is Classic, use it for an existing documented installation and evaluate ABB's listed migration devices for new planning rather than treating them as automatic drop-in replacements.
03	Use a 24 V DC SELV/PELV supply within ABB's -15 %/+20 % tolerance and the specified 3 A fast fuse; do not exceed process or supply voltage limits.
04	De-energize and verify safe state before mounting, removing terminal blocks, opening option-board covers, or changing field wiring.
05	Use only ABB-approved 9- and 11-pole terminal blocks and verify every terminal assignment, conductor size, polarity, group supply, external fuse, and load in the exact manual.
06	Do not apply current to the analog inputs; the cited PM566 onboard analog input range is 0...10 V unless the channel is configured as a 24 V DC digital input.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_AND_ORDER_CODE_FROM_ABB_PRODUCT_PAGE_AND_CURRENT_ABB_DATA_SHEET
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Official ABB sources

ABB product page – ISAPI21500R0071	https://www.abb.com/global/en/products/isapi21500r0071
ABB PM554, PM556, PM564, PM566 Processor Module Data Sheet, 3ADR010065 revision 11	https://library.e.abb.com/public/a41f05008c5a4557a1a6e6b232bacb1d/PM55x_PM56x_Data_Sheet%2C%201%2C%20en_US.pdf
ABB PLC Automation Main Catalog	https://library.e.abb.com/public/f55b85def0d342bd92561ab31b85faed/3ADR020077C0204%20REV%20C%20PLC%20Automation.pdf
ABB AC500 Installation Instructions	https://library.e.abb.com/public/b9679f213ec7410db5de432a61178dd3/3ADR024117M02xx%2C%2020%2C%2020en_US%2C%20AC500_Installation_Instruction.pdf
ABB PLC Automation – AC500 platform	https://www.abb.com/global/en/areas/motion/plc