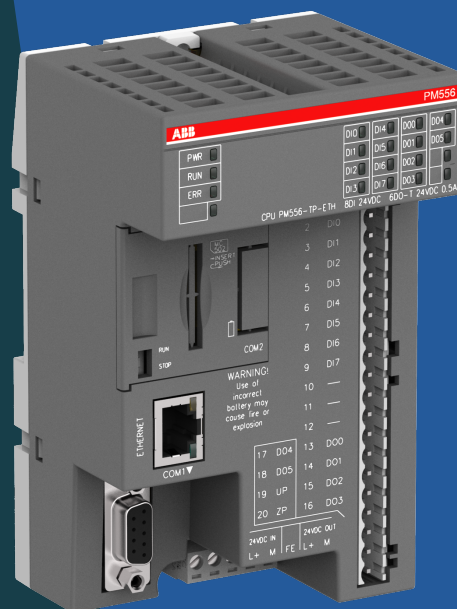




1SAP121200R0071

PM556-TP-ETH

PRODUCT REFERENCE

ABB AC500-eCo | 24 V DC | 8 DI + 6 DO-T

Product identity and system role

The PM556-TP-ETH is an Ethernet-equipped AC500-eCo programmable logic controller CPU. It executes the PLC application, reads eight onboard digital inputs, drives six transistor outputs, exchanges configured network data through the onboard Ethernet interface, communicates through RS-485 COM1, and coordinates local I/O expansion.

Identity Order code: 1SAP 121 200 R0071 Type: PM556-TP-ETH Platform: AC500-eCo	Onboard signal path 8 digital inputs and 6 transistor outputs Transistor outputs Maximum 10 local I/O modules
Execution memory Program memory: 512 kB Flash EPROM 10 kB VAR; 1 kB VAR_RETAIN; 64 kB %MB	Mechanical record 82 mm W x 135 mm H x 74 mm D 0.280 kg product net weight 0.446 kg gross weight

Core published data

Power supply	24 V DC
Current consumption	70 mA typical; 190 mA maximum
Internal dissipation	3.3 W maximum internal power dissipation
Onboard I/O	8 digital inputs and 6 transistor outputs
Local expansion	Maximum 10 AC500-eCo I/O modules
Product record status	ABB product record shows active sales status in multiple country organizations

Signals, processing, and communication

Sense Eight onboard digital inputs receive discrete field states for the PLC application.	Process The CPU executes cyclic, time-controlled, and multitasking PLC logic from 512 kB Flash EPROM program memory.
Actuate Six onboard transistor outputs command external control circuits when the application conditions are met.	Expand The local I/O bus supports a maximum of 10 additional I/O modules; CS31 can address decentralized stations under the published system limits.

COM1 and onboard interfaces

COM1 physical link	RS-485, non-isolated, 9-pin D-sub female
COM1 transmission rate	Configurable from 1.2 to 187.5 kbit/s
COM1 functions	Programming port; Modbus master or slave; serial ASCII; CS31 master
Optional COM2	RS-485 through TA562-RS, TA562-RS-RTC, or isolated TA569-RS-ISO
Ethernet	One onboard industrial Ethernet interface
Option positions	Two option slots are identified in the ABB product record

Important

The COM1 typical common-mode range is -8 V to +12 V. ABB warns that the interface can be damaged if the signal exceeds this range.

Application fit and selection boundaries

-	Networked compact machines requiring onboard Ethernet plus deterministic local digital I/O
-	Conveyor, packaging, and material-handling cells using 24 V DC sensors and transistor-driven loads
-	Process skids that exchange controller data over Ethernet while retaining RS-485 serial communication
-	Distributed automation panels expanded through up to 10 AC500-eCo I/O modules

Selection checkpoints

1	Confirm the complete order code ISAP 121 200 R0071 and the PM556-TP-ETH nameplate before configuration.
2	Use only the published 24 V DC supply data for this variant.
3	Confirm that the project expects 8 DI + 6 DO-T and not the signal mix of another PM55x or PM56x CPU.
4	Select memory, clock, serial, terminal, and I/O expansion accessories against the installed AC500-eCo configuration.
5	Use current ABB system documentation for terminal assignments, load limits, wiring diagrams, and software procedures.

Official document basis

ABB data sheet	3ADR010065, revision 8, 2022-01-31
ABB product record	ISAP121200R0071 - PM556-TP-ETH
Source rule	Values in this reference are limited to the ABB sources above. Project-specific settings must be verified in the current installed-system documentation.



Apter Power product page

<https://www.apterpower.com/ABB/Isap121200r0071-pm556-tp-eth>

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Important: This is an independent Apter Power reference. It is not an ABB manual and does not replace current ABB safety, installation, wiring, or engineering instructions.