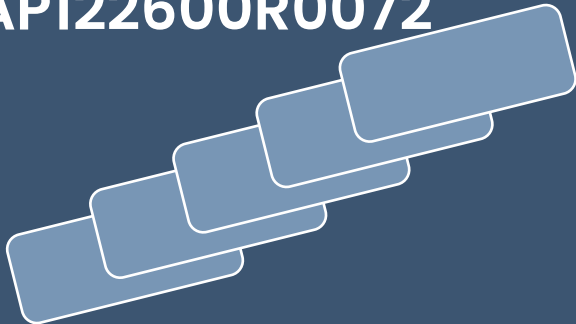


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB PM5012-T-ETH-ISAP122600R0072

Product Reference

ABB AC500-eCo V3 Basic PLC CPU



DOCUMENT SCOPE

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

Product / lookup identity	ABB PM5012-T-ETH-ISAP122600R0072
Reference number	ISAP122600R0072
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/Isap122600r0072-pm5012-t-eth>
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Product role and published parameters

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

ABB ISAPI22600R0072 PM5012-T-ETH is a revision-0 AC500-eCo V3 basic PLC CPU for compact industrial automation. It executes the control program, reads six onboard 24 V DC digital inputs and drives four 24 V DC transistor outputs, including documented counter, interrupt and PWM functions. One RJ45 Ethernet port supports programming, TCP/IP, UDP/IP, DHCP, PING, network variables and Modbus TCP client/server, while one option-board slot can add supported serial or I/O functions. It suits compact machinery and small automation subsystems whose documented onboard I/O and communication limits fit the engineered application.

Published field	Manufacturer-published value or verified identity note
Processor Revision	Revision 0
Supply	24 V DC, -15%/+20%
Memory	128 MB DRAM; 1 MB maximum application size
Digital Inputs	6 x 24 V DC; 2 counters to 5 kHz; 4 interrupt-capable
Transistor Outputs	4 x 24 V DC, 0.5 A resistive; PWM to 5 kHz
Ethernet	1 x RJ45 with Modbus TCP client/server
Option-board Slots	1

System function and signal path

01	Executes an IEC 61131-3 PLC application in the AC500-eCo V3 platform.
02	Reads six onboard 24 V DC digital inputs; two can operate as 5 kHz counters and four support interrupt functions.
03	Drives four onboard 24 V DC transistor outputs rated 0.5 A resistive per channel; outputs support standard or PWM operation up to 5 kHz.
04	Provides one RJ45 Ethernet port for programming, TCP/IP, UDP/IP, DHCP, PING, network variables and Modbus TCP client/server.

Applications, answers, and official sources

- 1 Compact machinery with a small number of 24 V DC sensors and actuators
- 2 Small automation cells requiring Ethernet programming and Modbus TCP
- 3 Simple sequencing, interlocking, counter and PWM control tasks
- 4 Small building or utility subsystems when the documented I/O count and environmental limits are adequate

Frequently asked questions

What is ABB PM5012-T-ETH 1SAP122600R0072?	It is revision 0 of an AC500-eCo V3 basic PLC CPU with onboard digital I/O and one Ethernet port for compact automation.
What is the life-cycle status of order code 1SAP122600R0072?	ABB's current model-specific data sheet classifies revision 0, order code R0072, as Classic and says it is not recommended for planning and commissioning new installations.
What is ABB's active replacement?	ABB lists processor revision 1, order code 1SAP122600R0172, as the Active replacement with the same PM5012-T-ETH feature/function position. Migration requirements still apply.
How many onboard inputs and outputs does PM5012-T-ETH have?	It has six 24 V DC digital inputs and four 24 V DC transistor outputs. It has no onboard analog I/O.
Which high-speed I/O functions are available?	Two inputs support counter operation up to 5 kHz, four inputs support interrupts, and the four transistor outputs support standard or PWM operation up to 5 kHz.
Which Ethernet functions does the model-specific data sheet support?	Programming, TCP/IP, UDP/IP, DHCP, PING, network variables and Modbus TCP client/server over one RJ45 port. The PM5012 row does not support copying advanced features from higher CPUs.

Official ABB sources

ABB PM50xx AC500-eCo V3 data sheet	https://library.e.abb.com/public/fc18739ccabc4bf4a8d0ba84507c0a55/3ADR010585%2C%207%2C%20en-US%2C%20PM50xx_Data_Sheet.pdf
ABB legacy product page: PM5012-T-ETH R0072	https://new.abb.com/products/it/1SAP122600R0072/pm5012-t-eth
ABB current product page: PM5012-T-ETH R0172	https://www.abb.com/global/en/products/1sap122600r0172
ABB AC500-eCo CPU page	https://new.abb.com/plc/programmable-logic-controllers-plcs/ac500-eco/cpus
ABB AC500-eCo product-family page	https://new.abb.com/plc/programmable-logic-controllers-plcs/ac500-eco
ABB AC500-eCo V3 migration guide	https://library.e.abb.com/public/75adbfb2b37c141b7a60850d44da425ba/3ADR011272%2C%201%2C%20en_US_lowres.pdf