

AP510-CAN2

CAN Bus Expansion - Fieldbus Industrial PC

Part of the AP510 family — also available: AP510-8POE, AP510-H1, AP510-H1B, AP510-H1BP, AP510-H7, AP510-JH2, AP510-JH2B, AP510-JH3, AP510-JH5, AP510-L2

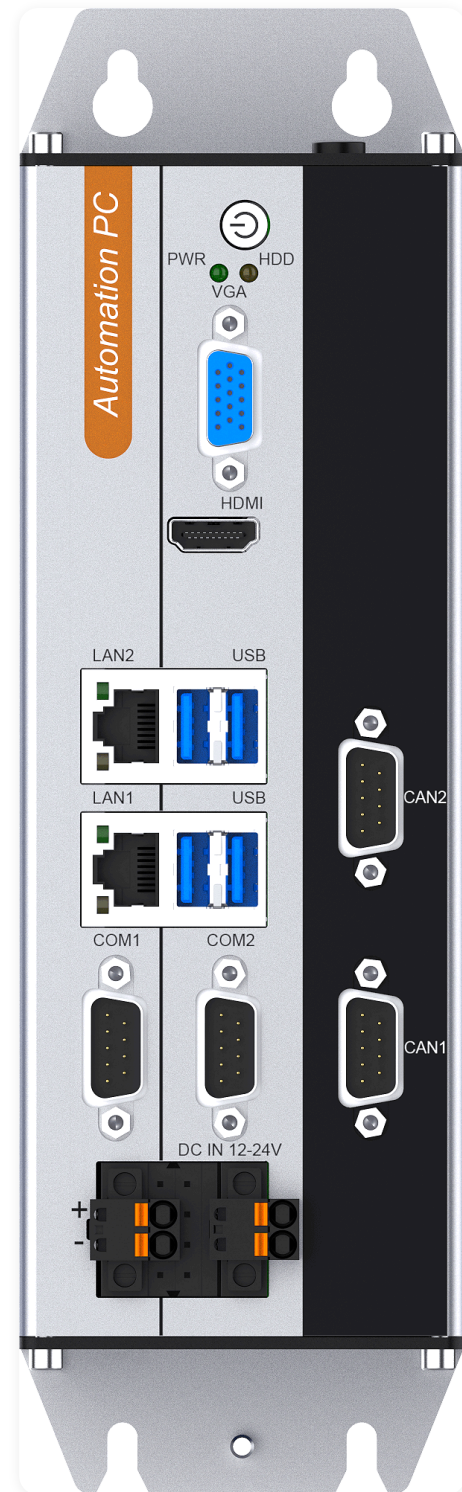
Product Overview

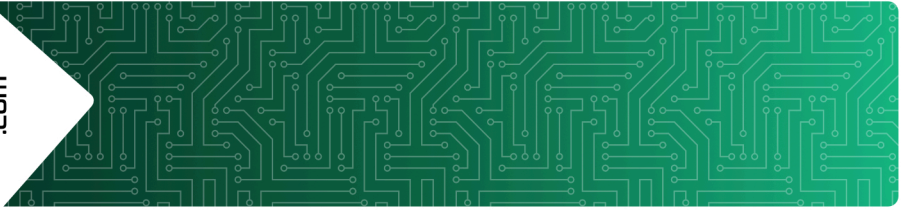
The AP510-CAN2 is a factory-configured AP510 with the CAN Bus expansion card fitted. Two CAN 2.0 A/B channels on DB9 connectors for direct communication with motor controllers, LIDAR sensors, safety systems, and industrial fieldbus networks. Supports CANopen, SAE J1939, and DeviceNet protocols.

Built on the AP510 platform with Intel 10th/11th Gen Core processors (i3 to i9), dual storage slots, and full base I/O. See the AP510 platform datasheet for complete base specifications, wireless options, and CPU compatibility.

Product Highlights

- 2x CAN 2.0 A/B (DB9 connectors)
- CANopen, SAE J1939, DeviceNet protocol support
- Plus AP510 base I/O: 2x GbE, 4x USB 3.0, 2x RS232/RS485, VGA/HDMI (no miniPCIe on this variant)
- Intel 10th/11th Gen Core i3/i5/i7/i9, LGA1200, up to 65W TDP
- Up to 32 GB DDR4, mSATA + M.2 SATA storage
- DC 12-24V, active cooling, -20 to 60°C
- Wall mount or DIN rail - 200 x 154.5 x 74.6 mm





Applications

AGV Control

Robotics

Vehicle Integration

Industrial Fieldbus

Motor Controllers

Safety Systems

Technical Specifications

Expansion Card I/O

CAN Bus	2x CAN 2.0 A/B, DB9 connectors	Protocols	CANopen, SAE J1939, DeviceNet
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Base Unit I/O (included)

Ethernet	2x Intel GbE LAN (2 total GbE ports with expansion)	Display	HDMI (3840 x 2160 @ 60Hz) + VGA (1920 x 1200 @ 60Hz)
USB	4x USB 3.0, 1x USB 2.0 Type A (internal, for dongle)	Expansion Slot	No miniPCIe expansion slot on this variant
Serial	2x COM (DB-9), RS232/RS485 selectable, ESD protected	Watchdog	1-255 levels programmable

System

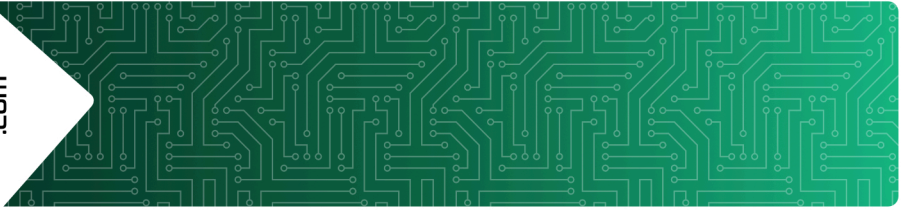
Processor	Intel Core 10th/11th Gen i3/i5/i7/i9, LGA1200 socket, up to 65W TDP	Storage	1x mSATA + 1x M.2 (B Key, 2280) SATA
RAM	2x SO-DIMM DDR4, up to 32 GB	OS Support	Windows 10/11 (Pro, IoT, LTSC), Ubuntu, Debian

Power & Environment

Power Input	DC 12-24V \pm 10%, overcurrent, overvoltage and polarity protection	Power Consumption	Max. 120W
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Technical Specifications (cont.)

Cooling	Active cooling - embedded fan	Vibration / Shock	1.5 Grms (IEC 60068-2-64) / 20G, 11ms (IEC 60068-2-27)
Operating Temperature	-20°C to 60°C (-4°F to 140°F) with airflow	EMC	CE / FCC Class A
Chassis			
Dimensions	200 mm (L) x 154.5 mm (W) x 74.6 mm (H)	Mounting	Wall mount or DIN rail
Weight	Approx. 2.0 kg	Construction	Aluminium-magnesium alloy



Model Numbers

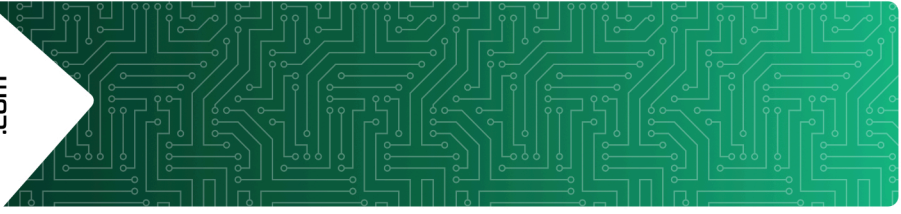
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Code	Meaning
5	Modular platform (active cooling, expansion bay)
1	First generation
X	CPU class (3 = i3, 5 = i5, 7 = i7, 9 = i9)
CAN2	CAN Bus expansion card

Example: AP515-CAN2 = Gen 1, Core i5, CAN Bus

Ordering Information

Part Number	Description
AP513-CAN2	Intel Core i3 - CAN Bus - CAN Bus for AGV, robotics, vehicle control
AP515-CAN2	Intel Core i5 - CAN Bus - CAN Bus for AGV, robotics, vehicle control
AP517-CAN2	Intel Core i7 - CAN Bus - CAN Bus for AGV, robotics, vehicle control



Ordering Information (cont.)

Part Number	Description
AP519-CAN2	Intel Core i9 - CAN Bus - CAN Bus for AGV, robotics, vehicle control

Specifications are subject to change without notice. E&OE.

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For full base platform specifications, wireless options, and CPU compatibility, refer to the AP510 platform datasheet.

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