

## AP510-JH2

2x PoE + Strobe + DIO Expansion - Machine Vision Industrial PC

Part of the AP510 family — also available: AP510-8POE, AP510-CAN2, AP510-H1, AP510-H1B, AP510-H1BP, AP510-H7, AP510-JH2B, AP510-JH3, AP510-JH5, AP510-L2

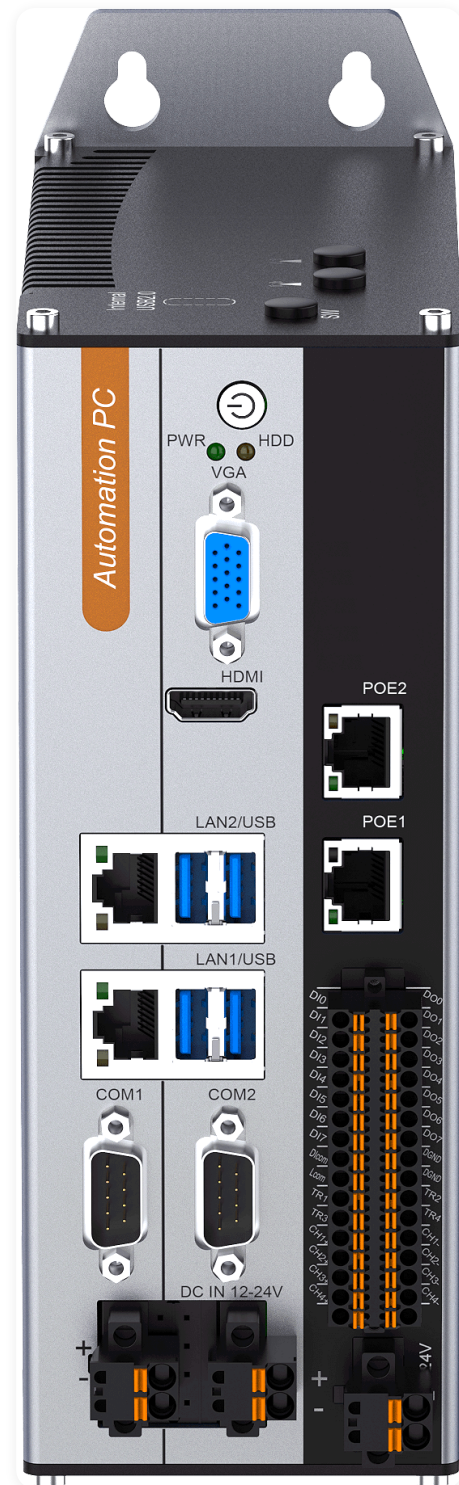
### Product Overview

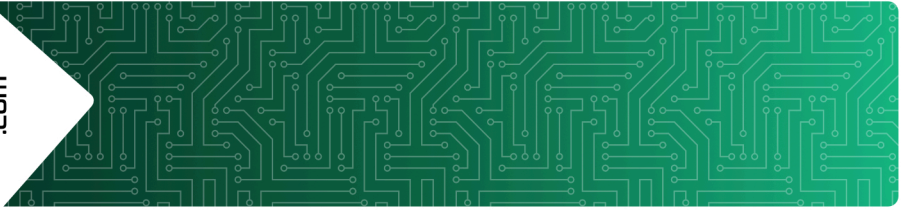
The AP510-JH2 is a factory-configured AP510 with the 2x PoE + Strobe + DIO expansion card fitted. It powers two GigE Vision cameras directly over PoE, synchronises strobe lighting via PWM outputs, and provides isolated digital I/O for reject systems - ideal for inline QA and label verification stations.

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 PoE GbE (15W/port) for GigE Vision cameras
- 4x PWM strobe output with 4x trigger input
- 8x DI + 8x DO (isolated)
- Plus all AP510 base I/O: 2x GbE, 4x USB 3.0, 2x RS232/RS485, VGA/HDMI
- 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
- DC 12-24V (DC24V required for light control), active cooling, -20 to 60°C





## Applications

Inline QA

Label Verification

Barcode Reading

Print Quality

2-Camera Inspection

Packaging Verification

## Technical Specifications

### Expansion Card I/O

**PoE Ethernet** 2x Intel GbE PoE, 15W per port

**PWM Strobe Output** 4x PWM light output

**Trigger Input** 4x trigger input

**Digital Inputs** 8x DI, isolated

**Digital Outputs** 8x DO, isolated

### Base Unit I/O (included)

**Ethernet** 2x Intel GbE LAN (4 total GbE ports with expansion)

**USB** 4x USB 3.0, 1x USB 2.0 Type A (internal, for dongle)

**Serial** 2x COM (DB-9), RS232/RS485 selectable, ESD protected

**Display** HDMI (3840 x 2160 @ 60Hz) + VGA (1920 x 1200 @ 60Hz)

**Expansion Slot** 1x miniPCIe with SIM holder (Wi-Fi 7 / 4G LTE optional)

**Watchdog** 1-255 levels programmable

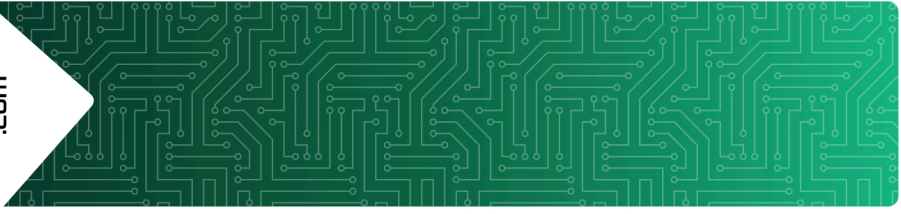
### System

**Processor** Intel Core 10th/11th Gen i3/i5/i7/i9, LGA1200 socket, up to 65W TDP

**RAM** 2x SO-DIMM DDR4, up to 32 GB

**Storage** 1x mSATA + 1x M.2 (B Key, 2280) SATA

**OS Support** Windows 10/11 (Pro, IoT, LTSC), Ubuntu, Debian



## Technical Specifications (cont.)

### Power & Environment

**Power Input** DC 12-24V  $\pm$ 10%, overcurrent, overvoltage and polarity protection (must be DC24V when using light control)

**Power Consumption** Max. 220W

**Cooling** Active cooling - embedded fan

**Operating Temperature** -20°C to 60°C (-4°F to 140°F) with airflow

**Vibration / Shock** 1.5 Grms (IEC 60068-2-64) / 20G, 11ms (IEC 60068-2-27)

**EMC** CE / FCC Class A

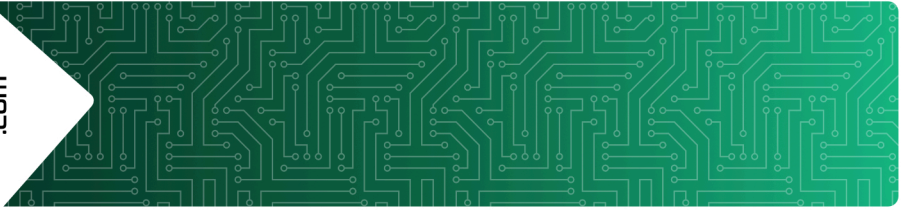
### Chassis

**Dimensions** 200 mm (L) x 154.5 mm (W) x 74.6 mm (H)

**Weight** Approx. 2.4 kg

**Mounting** Wall mount or DIN rail

**Construction** Aluminium-magnesium alloy



## Model Numbers

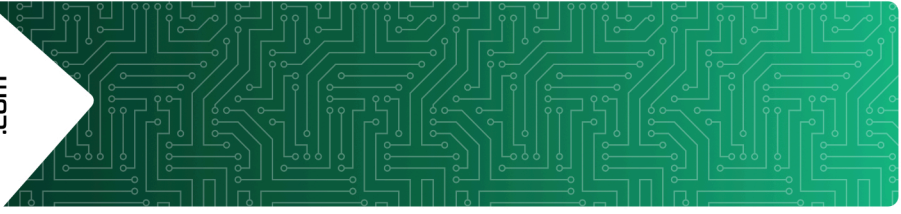
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Code	Meaning
5	Modular platform (active cooling, expansion bay)
1	First generation
X	CPU class (3 = i3, 5 = i5, 7 = i7, 9 = i9)
JH2	2x PoE + Strobe + DIO expansion card

Example: AP515-JH2 = Gen 1, Core i5, 2x PoE + Strobe + DIO

## Ordering Information

Part Number	Description
AP513-JH2	Intel Core i3 - 2x PoE + Strobe + DIO - 2-camera machine vision with light control
AP515-JH2	Intel Core i5 - 2x PoE + Strobe + DIO - 2-camera machine vision with light control
AP517-JH2	Intel Core i7 - 2x PoE + Strobe + DIO - 2-camera machine vision with light control



## Ordering Information (cont.)

Part Number	Description
AP519-JH2	Intel Core i9 - 2x PoE + Strobe + DIO - 2-camera machine vision with light 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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