

## AP510-8POE

8x PoE GigE Expansion - Machine Vision Industrial PC

Part of the AP510 family — also available: AP510-CAN2, AP510-H1, AP510-H1B, AP510-H1BP, AP510-H7, AP510-JH2, AP510-JH2B, AP510-JH3, AP510-JH5, AP510-L2

### Product Overview

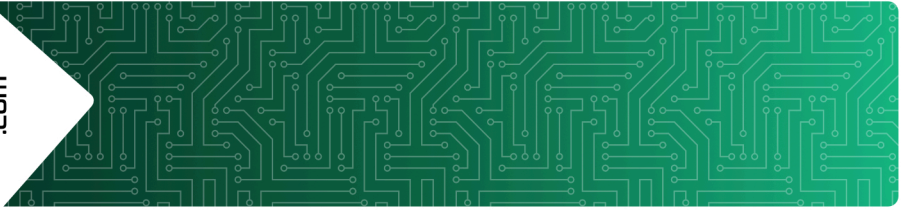
The AP510-8POE is a factory-configured AP510 with the 8x PoE GigE expansion card fitted. It powers up to eight GigE Vision cameras directly from a single unit with a 120W aggregate PoE budget. No external PoE switches, no extra power supplies - one box for high-density multi-camera inspection.

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

- 8x PoE GbE (15W/port) for GigE Vision cameras
- 120W aggregate PoE budget
- 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
- Wall mount or DIN rail - 200 x 154.5 x 74.6 mm





## Applications

360° Inspection

High-Volume Lines

Multi-Station Vision

8-Camera Inspection

Warehouse Sorting

Logistics

## Technical Specifications

### Expansion Card I/O

**PoE Ethernet** 8x Intel GbE PoE, 15W per port

**PoE Budget** 120W aggregate

### Base Unit I/O (included)

**Ethernet** 2x Intel GbE LAN (10 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** 1x miniPCIe with SIM holder (Wi-Fi 7 / 4G LTE optional)

**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

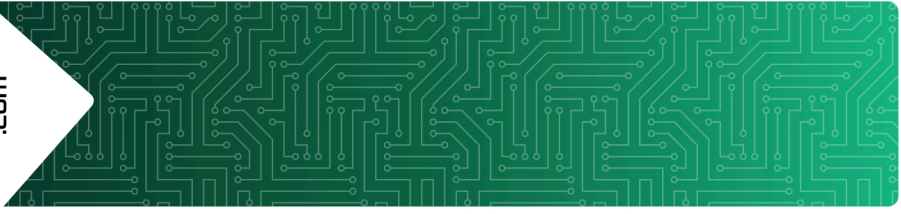
**Storage** 1x mSATA + 1x M.2 (B Key, 2280) SATA

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

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

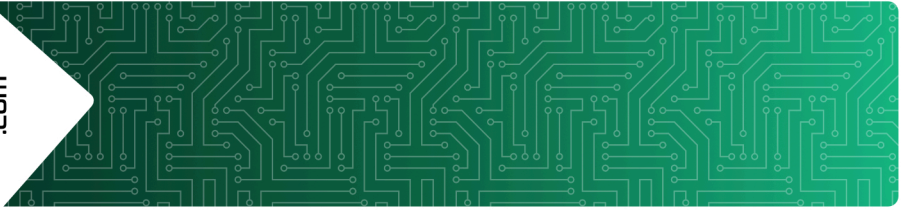
### Power & Environment

**Power Input** DC 12-24V  $\pm$ 10%, overcurrent, overvoltage and polarity protection



## Technical Specifications (cont.)

<b>Power Consumption</b>	Max. 250W	<b>Vibration / Shock</b>	1.5 Grms (IEC 60068-2-64) / 20G, 11ms (IEC 60068-2-27)
<b>Cooling</b>	Active cooling - embedded fan	<b>EMC</b>	CE / FCC Class A
<b>Operating Temperature</b>	-20°C to 60°C (-4°F to 140°F) with airflow		
<b>Chassis</b>			
<b>Dimensions</b>	200 mm (L) x 154.5 mm (W) x 74.6 mm (H)	<b>Mounting</b>	Wall mount or DIN rail
<b>Weight</b>	Approx. 2.6 kg	<b>Construction</b>	Aluminium-magnesium alloy



## Model Numbers

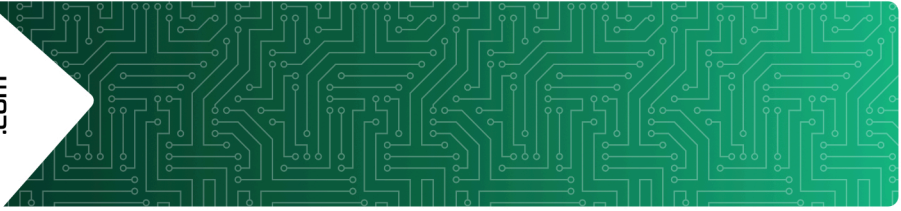
AP 5 1 X - 8POE

Code	Meaning
5	Modular platform (active cooling, expansion bay)
1	First generation
X	CPU class (3 = i3, 5 = i5, 7 = i7, 9 = i9)
8POE	8x PoE GigE expansion card

Example: AP515-8POE = Gen 1, Core i5, 8x PoE GigE

## Ordering Information

Part Number	Description
AP513-8POE	Intel Core i3 - 8x PoE GigE - 8-camera GigE Vision, 120W PoE budget
AP515-8POE	Intel Core i5 - 8x PoE GigE - 8-camera GigE Vision, 120W PoE budget
AP517-8POE	Intel Core i7 - 8x PoE GigE - 8-camera GigE Vision, 120W PoE budget



## Ordering Information (cont.)

Part Number	Description
AP519-8POE	Intel Core i9 - 8x PoE GigE - 8-camera GigE Vision, 120W PoE budget

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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