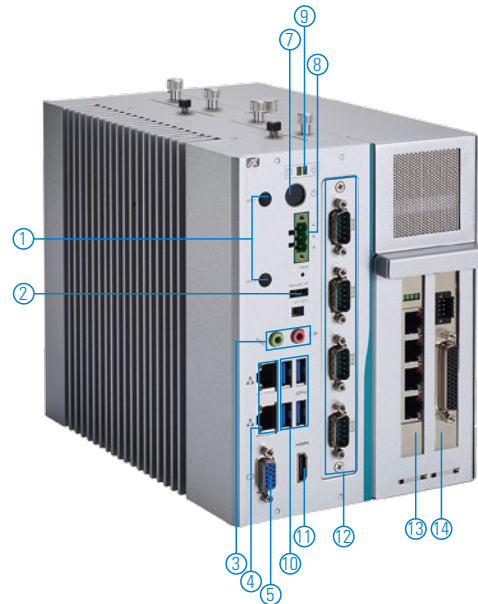


# IPS960-511-PoE NEW

Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron®, Intel® H110 Chipset, 4 PoE, 4 USB 3.0, and Real-time Vision I/O

## Features

- Integrated real-time vision I/O
  - 4 CH trigger input
  - 4 or 8 CH trigger output
  - 4 CH LED lighting control
  - 1 CH quadrature encoder input
  - 16 CH isolated DIO
  - 1 CH auto measurement function
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
  - 4 USB 3.0 ports
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +55°C operating temperature range
- Supports 2 swappable 2.5" HDD
- Supports optional WLAN module & antenna
- Supports TPM 2.0 function
- Compact & front I/O design



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|------------------------|-------------------|---|
| 1. 2 x Antenna opening | 7. Power switch   | 12. I/O module slot   |
| 2. Remote switch       | 8. Terminal block | (1) AX93511: 4 x RS-232/422/485 (default RS-232)  |
| 3. Mic-in & Line-out   | 9. HDD/Power LED  | (2) AX93512: 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection        |
| 4. 2 x LAN             | 10. 4 x USB 3.0   | (3) AX93516: 4 x RS-232/422/485 with isolated 1.5 kV protection                               |
| 5. VGA                 | 11. HDMI          | (4) AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232) |
| 6. Reset switch        |                   | 13. 4 x IEEE802.3at GbE LAN port  |
|                        |                   | 14. Real-time vision I/O  |



## Specifications

Standard Color	Silver
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40
Processor System	CPU Level 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 35W (Kaby Lake/Skylake) Max. Speed 3.4 GHz Chipset Intel® H110
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x IEEE802.3at GbE LAN port (Intel® i210-AT, IEEE802.3at compliant, total max. power output 60W) 1 x Real-time vision I/O 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Mic-in 1 x Line-out
I/O Expansion Modules	AX93511: 4 x RS-232/422/485 (default RS-232) AX93512: 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection AX93516: 4 x RS-232/422/485 with isolated 1.5 kV protection AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232)
TPM	TPM 2.0

Vision I/O	- 4 CH trigger input (response time<1us, sink type, input range: 0 to 30V) - 4 or 8 CH trigger output (response time<1 us, output voltage: 12V) - 4 CH LED lighting control (24V, Max. 0.5A per channel, LED lighting control setting: Duty 50% and duration time 3.5s) - 1 CH quadrature encoder input (A/B/Z) - 8 CH isolated DI (sink/source type, input range: 0 to 30V) - 8 CH isolated DO (sink type, open collector, supply voltage: 5-30V) - 1 CH auto measurement function (Timer that measures response interval between trigger input and trigger output) - Programmable interrupt functions
Camera Interface	4 x IEEE802.3at GbE LAN port (PoE) 4 x USB 3.0 port
Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB interface
Storage	2 x 2.5" swappable HDD (15 mm height)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +55°C (+14°F to +131°F) with 6th gen Intel® Core™ and W.T. HDD or W.T. SSD -10°C to +45°C (+14°F to +113°F) with 7th gen Intel® Core™ and W.T. HDD or W.T. SSD
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	188.1 mm (7.39") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.582 kg (10.10lb)/5.546 kg (12.23lb)
Certifications	CE compliance

## Ordering Information

### System

IPS960-511-PoE	Vision system with 7th/6th gen Intel® Core™ i7/i5/i3 processor and Intel® H110
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### I/O Modules

AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 (default RS-232)
AX93512	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 1.5 kV
AX93519	1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232)
726G9620610E	Blank metal cover

### Optional

2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM max. up to 32GB	
826G9620020E / 8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
E981806008	44-pin DIN-rail terminal board DM44-AP12
E981806013	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
E981806014	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
E981806015	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

\* Specifications and certifications may vary based on different requirements.

## Power Protection

### DC Version

OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

## Packing List

1 x IPS960-511-PoE
1 x Driver CD
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

## Dimensions

