

FPC-9202-P6

Machine Vision Controller with Intel® 12th/13th/14th Gen Core™ i9/i7/i5/i3 Processor with 6 x GbE PoE



Features

- Fanless design
- Wide range DC power input (19~36V)
- Four independent displays support (HDMI x1 + VGA x1 and DP x2)
- Power on/off delay control / configurable ignition power control
- TPM 2.0 support
- 6 x 802.3af Gigabit PoE ports
- 1 x mPCIe for optional Wi-Fi/3G/4G/GPS or I/O expansion supported
- 1 x M.2 E key (2230) for Wi-Fi/BT
- 1 x M.2 (NGFF) B-Key (2242/2280/3052) socket for storage or 5G/LTE
- Front-accessible I/O support
- RAID 0,1 support

System	
CPU	Intel® 14 th generation Core™ i9/i7/i5/i3 processor in LGA1700 socket
Memory	2 x 262-pin DDR5 SO-DIMM sockets, supporting 5600 MHz SDRAM up to 96GB
Chipset	Intel® Q670E
Graphics	Integrated Intel® HD Graphics
ATA	2 x Serial ATA ports with 600MB/s HDD transfer rate
LAN Chipset	2 x Intel® WGI226LM 2.5GbE LAN 1 x Intel® WGI210AT GbE controller 1 x Intel® WGI219LM GbE controller w/ iAMT 6 x Intel® WGI210AT PCIe controller for PoE
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS-232/422/485 configurable ports via DB-9 connectors (Default RS-232)
USB Port	8 x USB 3.2 Gen2 (10Gbps) ports
	2 x USB 3.2 Gen1 (5Gbps) ports
LAN	Internal USB dongle (Optional)
	4 x RJ-45 ports for GbE/2.5GbE 6 x RJ-45 ports for PoE
Video Port	1 x HDMI
	1 x DB-15 female connector for Analog RGB 2 x DP female connector for digital video output
Selectable Port	1 x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
Audio	Mic-in/Line-out
Expansion Bus	1 x full-size Mini-card interconnected with SIM card for optional Wi-Fi/3G/4G/GPS or I/O Expansion (PCIe x1+ USB2.0)
	1 x M.2 E key (2230) with PCIe x1 + USB2.0, for Wireless
	1 x M.2 B key (2242/2280/3052) w/ (PCIe x2 + USB3.0/2.0) interconnected with SIM for 5G / LTE expansion or for storage (either one)
	1 x PCIe x8 slot (via x4 lanes) 1 x PCIe x16 slot

Environmental

Operating Temp.	-20 ~ 50°C (-4 ~ 122°F), ambient w/ air flow (w/ 35W TDP CPU, fanless)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Vibration	Comply with MIL-STD-810G, Method 514.6
Shock	Comply with MIL-STD-810G, Method 516.6, Table 516.6-II, 40G

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 19 ~ 36V input (w/ 4-pin DC input terminal block, combining remote power on/off switch)
Ignition Switch	2-pin terminal block: IGN, GND
Power Consumption	180W (typical)

Storage

Type	2 x 2.5" drive bays
	1 x M.2 M key (PCIe Gen4 x4 + SATA)

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Weight	7 kg (15.43 lb)
Dimension (W x H x D)	225 x 292 x 120 mm (8.86" x 11.50" x 4.72")

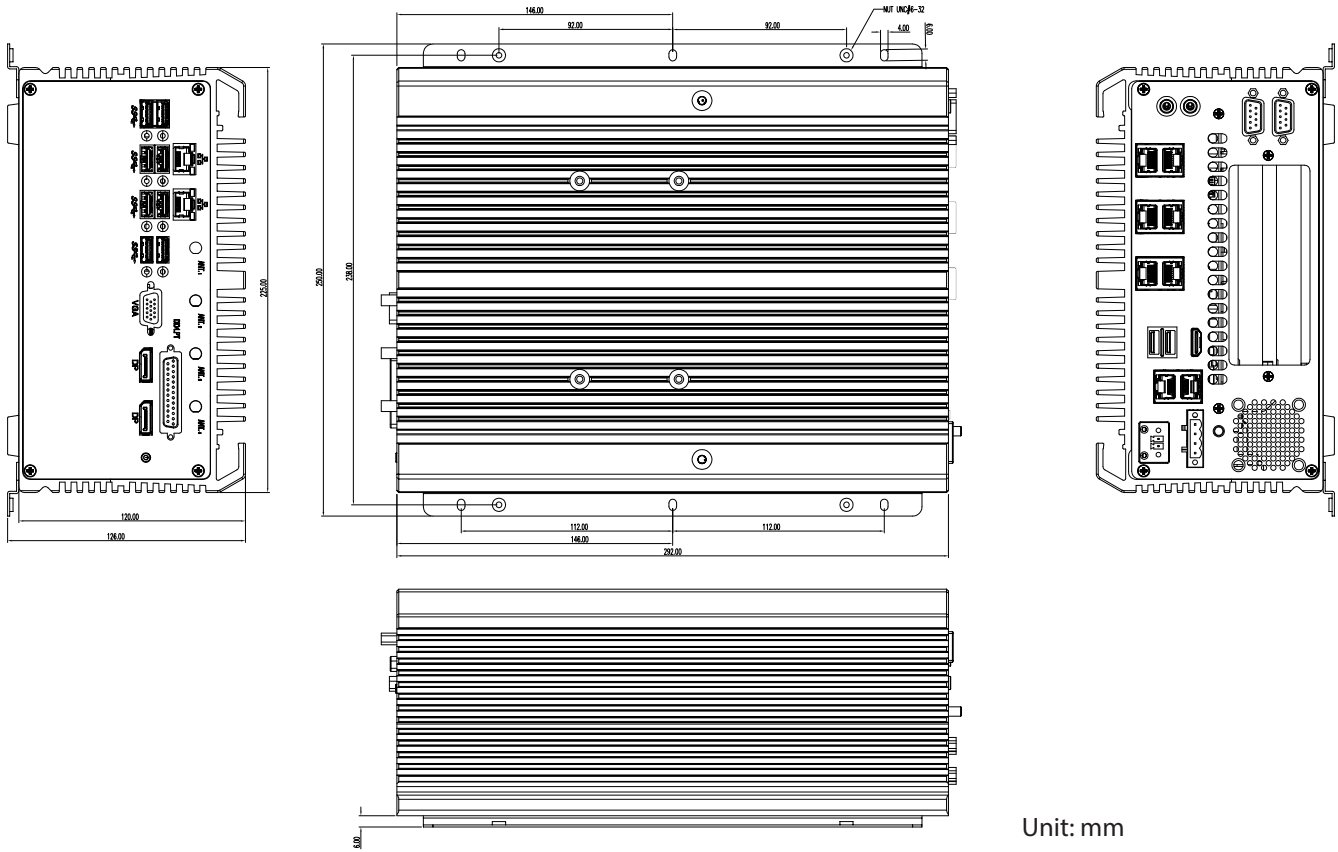
OS Support

Windows 10 IoT Enterprise 64-bit / Windows 11 IoT Enterprise 64-bit
Linux (Ubuntu 22.04)

Ordering Information

FPC-9202-P6	Machine Vision Controller with Intel® 14 th Gen Core™ Processor with 6 x GbE PoE (Up to 35W TDP CPU)
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Dimension



Unit: mm

Optional Accessories

WMK-7000	Wall-mount kit for FPC-7XXX Series	
PAC-180W6C-FSP-ES	180W AC/DC 19V adapter kit w/ 2-pin/ 3-pin/ 4-pin block	

Optional Configuration (CTOS* Kit)

WIFI-IN2550	Intel® AX200NGW M.2 Wi-Fi 6 module w/ 2 x 30cm internal wires	
ANT-H11	1 x 2dBi HSUPA Antenna	
ANT-D11	1 x Wi-Fi dual-band 2.4G/5G Antenna	
Core™ i9-14900T	Intel® 14 th Gen Core™ i9-14900T processor, 36M, 1.1G	
Core™ i7-14700T	Intel® 14 th Gen Core™ i7-14700T processor, 33M, 1.3G	
Core™ i5-14500T	Intel® 14 th Gen Core™ i5-14500T processor, 24M, 1.7G	
Core™ i3-14100T	Intel® 14 th Gen Core™ i3-14100T processor, 12M, 2.7G	

MK-5C-8G/16G/32G/48G	DDR5-4800/5600 8GB/16GB/32GB/48GB SDRAM DIMM kit	
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FAN-4020	Fan kit (40 x 40 x 20 mm, L=250 mm, 2P)	
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*CTOS means Configure-to-Order Service.