



# FPC-9002-P6

Machine Vision Controller with Intel® Xeon® E3/6<sup>th</sup> & 7<sup>th</sup> Generation Core™ i7/i5/i3 Processor with 6 GbE PoE

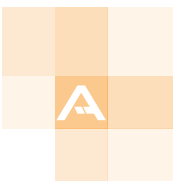


## Features

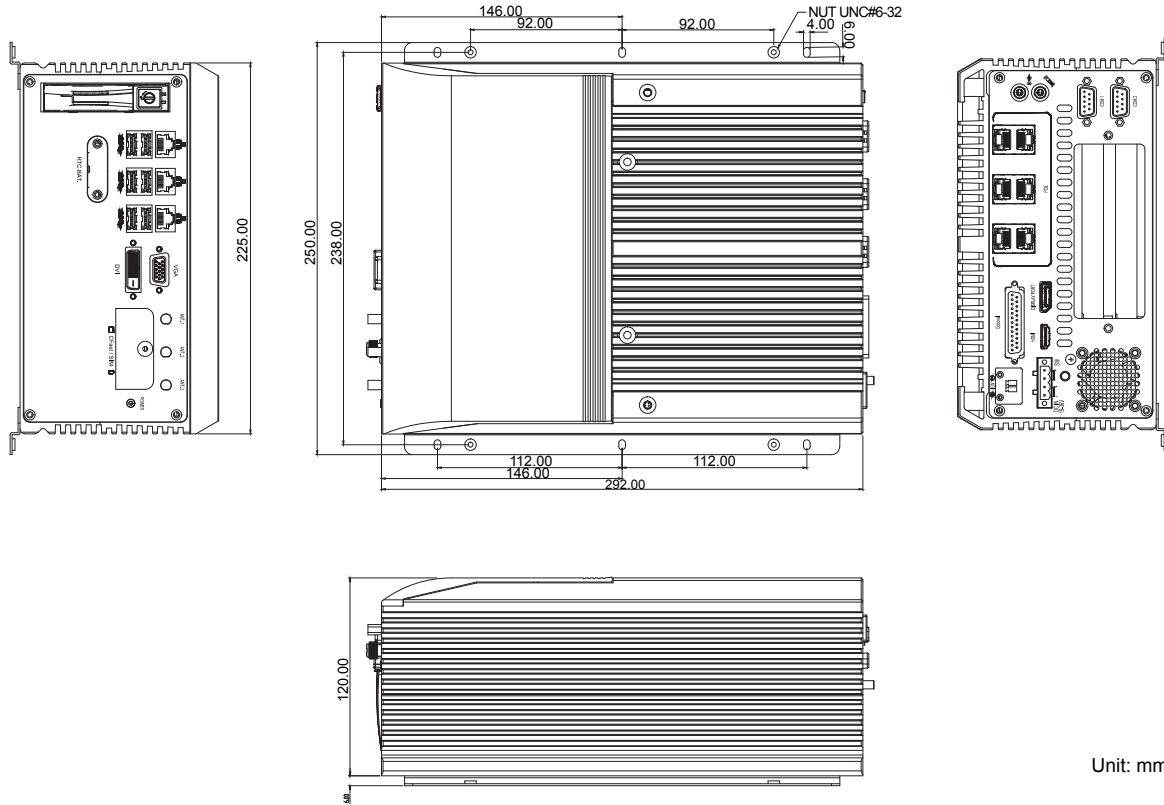
- Wide Range DC power input (19~36V)
- DP x1+HDMI x 1 +VGA x1+DVI x1 (supporting 3 independent display)
- Power on/off delay control/ Configurable ignition power control
- TPM2.0 support (optional)
- RTC Battery service windows support
- Two-mPCIe for Optional WiFi/3G/4G/GPS or I/O expansion supported
- 2 x SATA SSD ( 1 x removable, 1 x fixed ), supporting RAID 0,1
- Front-accessible I/O support
- SMART FAN control support
- 6 x 802.3af Gigabit PoE ports

| System          |   |
|-----------------|---|
| CPU             | Intel®Xeon® E3/6 <sup>th</sup> & 7 <sup>th</sup> generation Core™ i7/i5/i3 processor in LGA1151 socket  |
| Memory          | 2 x 260-pin DDR4 SO-DIMM sockets, supporting 2133 MHz SDRAM up to 32GB  |
| Chipset         | Intel® C236   |
| Graphics        | Integrated Intel® HD Graphics   |
| ATA             | 2 x Serial ATA ports with 600MB/s HDD transfer rate   |
| LAN Chipset     | 2 x Intel® WGI211AT PCIe controllers<br>1 x Intel® WGI219LM PCIe controllers w/ iAMT<br>6 x Intel® WGI211AT PCIe controllers for PoE                                |
| Watchdog Timer  | 1~255 levels reset  |
| I/O             |   |
| Serial Port     | 2 x RS-232/422/485 configurable   |
| USB Port        | 6 x USB 3.0/ 2.0 ports<br>Internal USB dongle (Optional)  |
| LAN             | 3 x RJ-45 ports for GbE<br>6 x RJ-45 ports for PoE  |
| Video Port      | 1 x DP<br>1 x HDMI<br>1 x DB-15 female connector for Analog RGB<br>1 x DVI-D female connector for digital video output  |
| Selectable Port | 1 x DB25 connector for 1 x DIO (8 in/8 out) port or 1 x LPT port (either one) (default DIO)   |
| Audio           | Mic-in/Line-out   |
| Expansion Bus   | 2 x Mini-card interconnected for optional WiFi/3G/4G/GPS or I/O Expansion<br>1 x SIM socket<br>1 x PCIe x16 slot +1 x PCIe x 8 slot (via x 4 lanes) for add-on card |

| Environmental   |   |
|---|---|
| Operating Temp.   | -20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow  |
| Storage Temp.   | -40 ~ 75°C (-40 ~ 167°F)  |
| Operating Humidity  | 10 ~ 95% @ 55°C (non-condensing)  |
| Vibration   | 3 Grms/5~500Hz/random operation w/ SSD  |
| Shock   | Operating 40G (11ms), Non-operating 60G with SSD  |
| Qualification   |   |
| Certification   | CE, FCC Class A   |
| 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 removable, 1 x fixed )<br>1 x CFast socket, can be outside accessible                |
| Mechanical  |   |
| Construction  | Aluminum alloy  |
| Mounting  | Wall-mount  |
| Weight  | 7.2kg (15.87 lb)  |
| Dimensions (W x D x H)  | 225 x 292 x 120mm (8.86" x 11.50" x 4.72")  |
| OS Support  |   |
| Windows 10 IOT ( For 7th Gen Intel CPU)                         |   |
| Windows 7 / Windows8.1/ Windows 10 IOT ( For 6th Gen Intel CPU) |   |
| Linux ( Kernel 4.4.x )  |   |
| Ordering Information  |   |
| FPC-9002-P6   | Machine Vision Controller with Intel® Xeon E3/ 6th & 7th Generation Core™ i7/i5/i3 Processor with 6 x GbE PoE |





# Dimensions









Unit: mm

## Optional Accessories

|                |                                    |   |
|----------------|------------------------------------|---|
| WMK-7000       | Wall-mount kit for FPC-7XXX Series |  |
| PAC-180W6C-FSP | 180W AC/DC 24V adapter kit         |  |

## Optional Configuration (CTOS\* Kit)

|                   |  |   |
|-------------------|--|---|
| 150GB SSD         | Intel® 2.5" 150GB SATAIII SSD kit  |  |
| WIFI-AT2350       | Atheros AR9462 Wi-Fi module w/ 20&30cm internal wires                    |  |
| ANT-H11           | 1 x 2dBi HSUPA antenna   |  |
| ANT-D11           | 1 x WiFi dual-band 2.4G/5G antenna                                       |   |
| Core™ i7-7700T    | Intel® 7th Gen. Core™ i7-7700T processor, L2/8M, 2.9G                    |  |
| Core™ i5-7500T    | Intel® 7th Gen. Core™ i5-7500T processor, L2/6M, 2.7G                    |   |
| Core™ i3-7101TE   | Intel® 7th Gen. Core™ i3-7101TE processor, L2/3M, 3.4G                   |   |
| Xeon™ E3-1268L-V5 | Intel® 6th Gen Xeon™ E3-1268L processor, L2/8M, 2.4G                     |   |
| MK-4C-4G/8G/16G   | DDR4-2133 4GB/8GB/16GB SDRAM DIMM kit                                    |  |
| FAN-4020          | Fan kit (40 x 40 x 20 mm, L=250mm, 2P)<br>8000 RPM, 10.8 CFM, 27.5 dB(A) |  |

\*CTOS means Configure-to-Order Service.