



# 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
- 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                                                                                                                               |
|                 | 1 x HDMI                                                                                                                             |
|                 | 1 x DB-15 female connector for Analog RGB                                                                                            |
|                 | 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                                                            |
|                 | 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 ~ 85°C (-40 ~ 185°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<br>Crash 100G, 11ms |

## 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 teminal 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

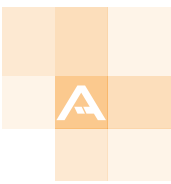
|                        |                   |
|------------------------|-------------------|
| Construction           | Aluminum alloy    |
| Mounting               | Wall-mount        |
| Weight                 | 7.2kg (15.87 lb)  |
| Dimensions (W x D x H) | 225 x 292 x 120mm |

## OS Support

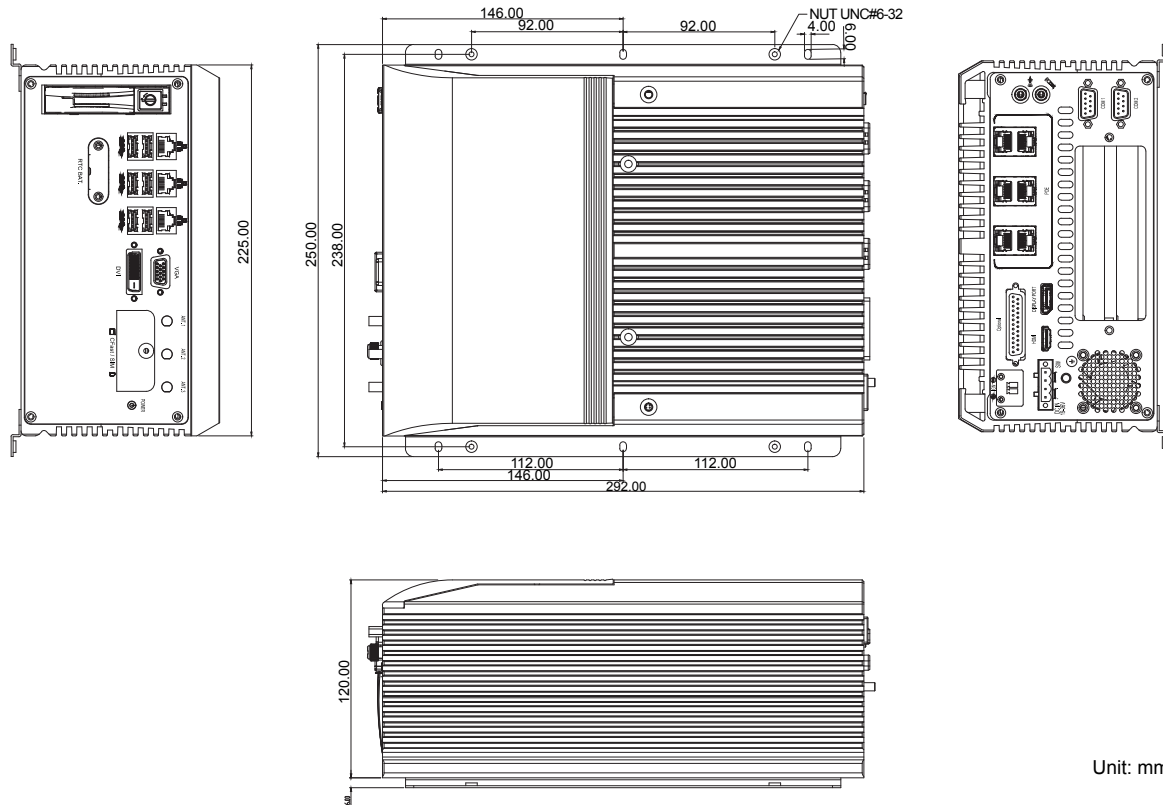
Windows 10 IOT ( For 7th Gen Intel CPU)  
Windows 7 / Windows8.1/ Windows 10 IOT ( For 6th Gen Intel CPU)  
Linux ( Kernal 4.4.x )

## Ordering Information

|             |                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------|
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|-------------|---------------------------------------------------------------------------------------------------------------|



## Dimensions



### 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 DDR4-2133 4GB SDRAM DIMM kit

MK-4C-8G DDR4-2133 8GB SDRAM DIMM kit

MK-4C-16G DDR4-2133 16GB SDRAM DIMM kit



\*CTOS means Configure-to-Order Service.