



# FPC-7901/7902/7903

Robust Box PC with Intel® Xeon® E3/6<sup>th</sup> & 7<sup>th</sup> Generation Core™ i7/i5/i3 Processor



## Features

- **Fanless design**
- Wide range DC power input (9~36V)
- DisplayPort x 1 + HDMI x1 + VGA x 1 and DVI x 1 (support 3 independent displays)
- Power on/off delay control / configurable ignition power control
- TPM 2.0 support
- RTC battery service window support
- Two-mPCIe for optional WiFi/3G/4G/GPS or I/O expansion supported
- 2 SATA SSD (1 x removable, 1 x internal), support RAID 0,1
- Front-accessible I/O support

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 GbE controllers 1 x Intel® WGI219LM GbE controller w/ iAMT 11.0
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS-232/422/485 configurable via DB-9 connectors 4 x RS-232 ports via DB-9 connectors
USB Port	6 x USB 3.0/ 2.0 ports Internal USB dongle (Optional)
LAN	3 x RJ-45 ports for GbE
Video Port	1 x DisplayPort 1 x HDMI 1 x DB-15 female connector for Analog RGB 1 x DVI-D female connector for digital video output * Support 3 independent displays
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 full-size & 1 half-size Mini-card interconnected for optional WiFi/3G/4G/GPS or I/O Expansion 1 x SIM socket 1 x PCIe x16 slot + 1 x PCI slot ( FPC-7901 ) 1 x PCIe x16 slot + 1 x PCIe x8 slot (via x 4 lanes) (FPC-7902) 2 x PCI (FPC-7903)
Environmental	
Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow, ( w/ 35W TDP CPU, fanless ) -20 ~ 50°C (-4 ~ 122°F), ambient w/ air flow (w/ 51W/65W TDP CPU, w/ SMART FAN control)

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 B
Power Requirement	
Power Input	DC 9~36V input ( w/ 4-pin DC input terminal block, combining remote power on/off switch
Ignition Switch	2-pin terminal block : IGN, GND
Power Consumption	Max. 75W (w/o I/O card)

## Storage

Type	2 x 2.5" drive bays 1 x CFast socket, can be outside accessible
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## Mechanical

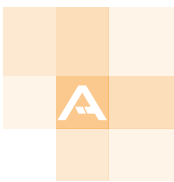
Construction	Aluminum alloy
Mounting	Wall-mount
Weight	7kg (15.43lb )
Dimensions (W x H x D)	225 x 292 x 120mm (8.86" x 11.50" x 4.72")

## OS Support

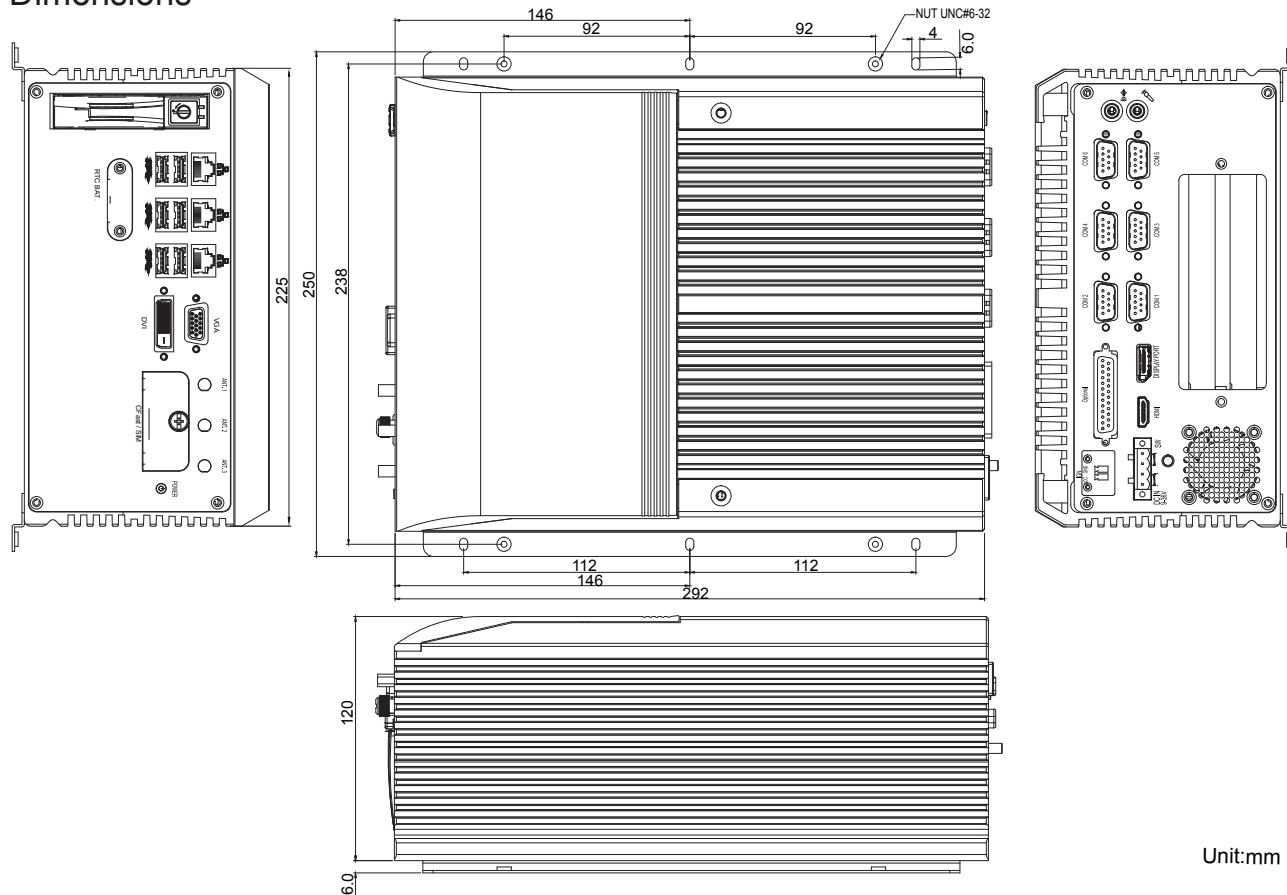
Windows 10 IOT ( For 7th Gen Intel CPU)  
Windows 7 / Windows 8.1/ Windows 10 IOT ( For 6th Gen Intel CPU)  
Linux ( Kernel 4.4.x )

## Ordering Information

FPC-7901	Fanless box PC for 35W CPU, w/ 1 x PCIe x16 + 1 x PCI
FPC-7902	Fanless box PC for 35W CPU, w/ 1 x PCIe x16 + 1 x PCIe x8
FPC-7903	Fanless box PC for 35W CPU, w/ 2 x PCI
FPC-7901-W65	Box PC for 51W/65W CPU w/ SMART FAN, 1 x PCIe x16 + 1 x PCI (BTO)
FPC-7902-W65	Box PC for 51W/65W CPU w/ SMART FAN, 1 x PCIe x16 + 1 x PCIe x8 (BTO)
FPC-7903-W65	Box PC for 51W/65W CPU w/ SMART FAN, 2 x PCI (BTO)





# Dimensions










Unit:mm

## Optional Accessories

WMK-7000	Wall-mount kit for FPC-7XXX Series	
PAC-120W6B-FSP	120W AC/DC adapter kit w/ 2-pin/3-pin/4-pin block	

## 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® 7 <sup>th</sup> Gen. Core™ i7-7700T processor, L2/8M, 2.9G	
Core™ i5-7500T	Intel® 7 <sup>th</sup> Gen. Core™ i5-7500T processor, L2/6M, 2.7G	
Core™ i3-7101TE	Intel® 7 <sup>th</sup> Gen. Core™ i3-7101TE processor, L2/3M, 3.4G	
Core™ i5-7500	Intel® 7 <sup>th</sup> Gen. Core™ i5-7500 processor, L2/6M, 3.4G	
Xeon™ E3-1268L-V5	Intel® 6 <sup>th</sup> 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) 8000 RPM, 10.8 CFM, 27.5 dB(A)	

\*CTOS means Configure-to-Order Service.