FPC-7900

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

Features

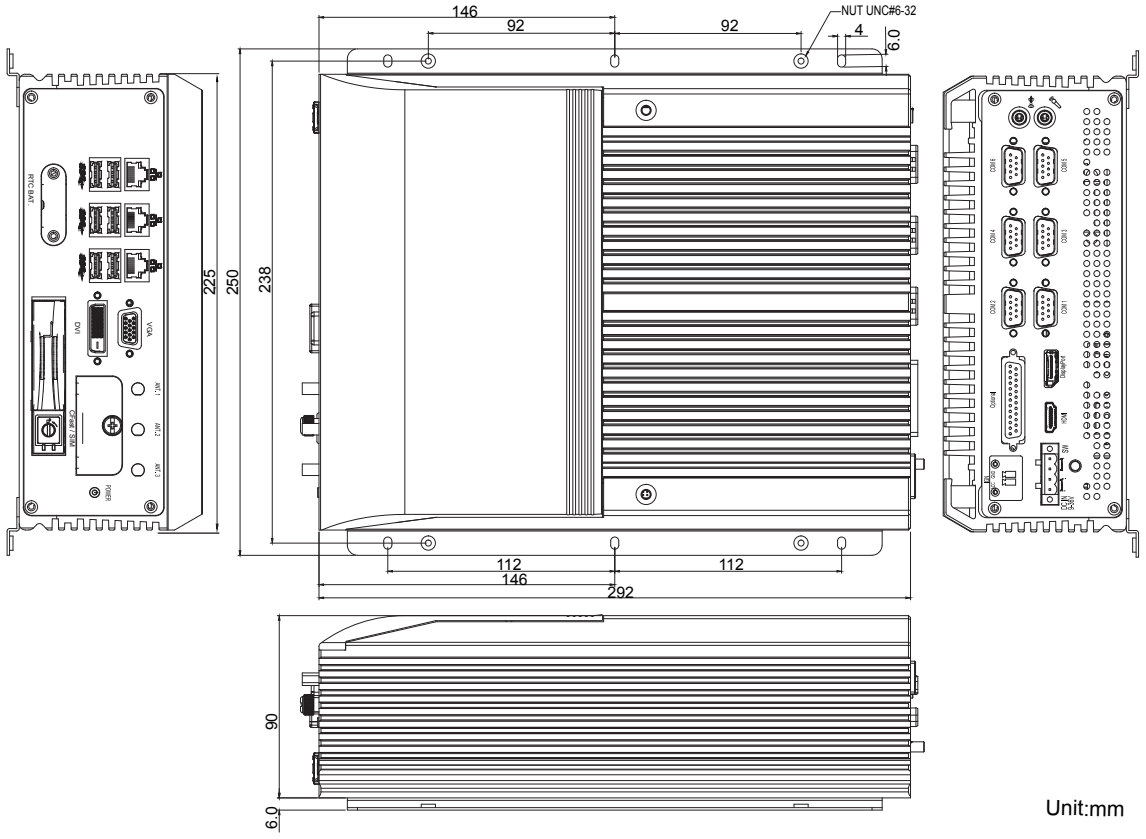
- **Fanless design**
- Wide range DC power input (9~36V)
- DisplayPort x 1 + HDMI x1 + VGA x 1 and DVI x 1 (support 3 independent displays)
- Power on/off delay control / configurable ignition power control
- TPM2.0 support
- RTC battery service window support
- Two-mPCIe for optional WiFi/3G/4G/GPS or I/O expansion supported
- 2 SATA SSD (1 x removable, 1 x internal), support RAID 0,1
- Front-accessible I/O support
- Intel® SSD E 5410s series compatible

System	
CPU	Intel® Xeon® E3/6th &7th 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

Environmental	
Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow, (w/ 35W~65W TDP CPU, fanless)
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 teminal block : IGN, GND
Power Consumption	Max. 75W (w/ 35W TDP CPU, w/o I/O card), 105W (w/ 65W TDP CPU. w/o I/O card)
Storage	
Type	2 x 2.5” drive bays
	1 x CFast socket, can be outside accessible
Mechanical	
Construction	Aluminum alloy
Mounting	Wall-mount
Weight	6.4kg(14.1lb)
Dimensions (W x D x H)	225 x 292 x 90mm (8.86” x 11.50” x 3.54”)
OS Support	
Windows 10 IOT (For 7th Gen Intel CPU) Windows 7 / Windows 8.1/ Windows 10 IOT (For 6th Gen Intel CPU) Linux (Kernal 4.4.x)	
Ordering Information	
FPC-7900	Fanless box PC for 35W ~65W CPU, w/o expansion

All specifications are subject to change without notice.

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	
PAC-180W6C-FSP	180W AC/DC adapter kit w/ 2-pin/3-pin/4-pin block	

Optional Configuration (CTOS* Kit)

80/120/150GB SSD	Intel® 2.5” 80/120/150GB SATAIII SSD kit	
WIFI-AT4550	Atheros QCNFA324 Wi-Fi module w/ 2x30cm internal wires	
ANT-H11	1 x 2dBi HSUPA antenna	
ANT-D11	1 x WiFi dual-band 2.4G/5G antenna	
Core™ i7-7700	Intel® 7th Gen. Core™ i7-7700 processor, L2/8M, 3.6G	
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	
Core™ i5-7500	Intel® 7th Gen. Core™ i5-7500 processor, L2/6M, 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	

**CTOS means Configure-to-Order Service.*