



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® E3/6 th & 7 th 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
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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/ 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
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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
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