FPC-791x Series

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

Features

- Fanless Design
- Wide Range DC Power Input (9 ~36V)
- Various Video Interfaces (VGA + DVI-D+HDMI) supported
- TPM2.0 support
- Optional Wi-Fi or LTE Wireless Connectivity supported
- Rugged Design for Shock/Vibration Protection
- Memory support up to 32GB

System	
CPU	Intel® 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® H110
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/o iAMT
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	4 x RS-232 ports via one DB-44 female connector. (COM1 and COM2 are RS-232 /422/485 configurable)
Selectable Poart	1 x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
USB Port	6 x USB 2.0 ports (Front side)*
	4 x USB 3.0 ports (Rear side)
	Support internal USB dongle (Optional)
LAN	3 x RJ-45 ports for GbE
Video Port	1 x DB-15 female connector for Analog RGB
	1 x HDMI
	1 x DVI-D female connector for digital video output
	* Support 2 independent display
Audio	Mic-in/Line-out
Expansion Bus	1 x Mini-card socket interconnected with SIM card socket for optional Wi-Fi or LTE module(Full size)
	1 x SIM socket/1 x CFast socket (outside accessible)
	1 x PCIe x16 slot +1 x PCI slot (FPC-7911)
	1 x PCIe x16 slot +1 x PCIe x 8 slot (via x 1 lanes) (FPC-7912)
	2 x PCI (FPC-7913)

Environmental	
Operating Temp.	-20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow, for 65W TDP CPU need to configure TDP to 35W via BIOS setting.
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
Qualification	
Certification	CE, FCC Class A
Power Requirement	
Power Input	DC 9~36V input (w/ 4-pin terminal block, combining remote power on/off switch)
Power Consumption	Max. 65W (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	5.8 kg (12.78 lb)
Dimensions (W x H x D)	FPC-7911 / FPC-7912 / FPC-7913 : 195 x 110 x 268 mm
OS Support	
Windows 10 IOT (For 6th/7th Gen Intel CPU) Windows 7 / Windows 8.1 (For 6th Gen Intel CPU) Linux (Kernal 4.x)	
Ordering Information	
FPC-7911	Fanless system w/ 1x PCI + 1 x PCIe x 16
FPC-7912	Fanless system w/ 1x PCIe x 8 + 1 x PCIe x 16
FPC-7913	Fanless system w/ 2x PCI

*Two of the USB ports are USB 3.0 connector but only USB 2.0 signal at front side.

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All specifications are subject to change without notice.

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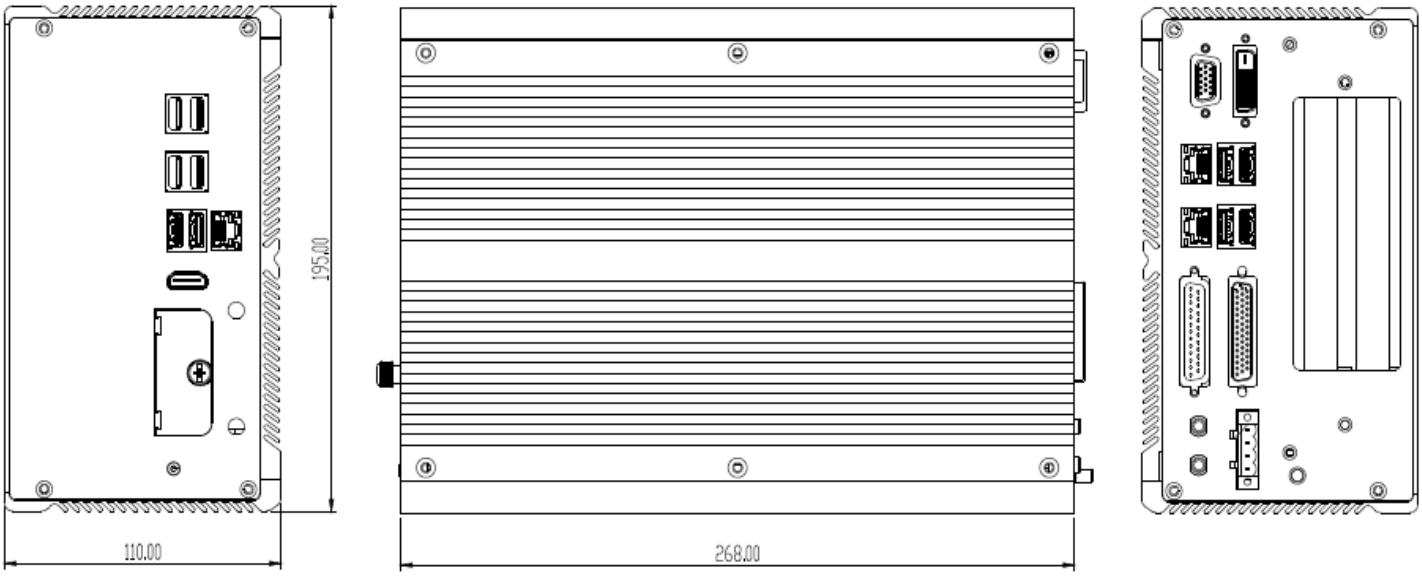
Dimensions



Optional Accessories		
PAC-120W6B-FSP-ES	120W AC/DC 19V adapter kit w/ 2-pin/3-pin/4-pin block	
CBL-7100-COM	4 x COM ports converter cable	
WMK-7000	Wall-mount kit for FPC-7XXX Series	
Optional Configuration (CTOS* Kit)		
240GB SSD	Intel® 2.5” 240GB SATAIII SSD kit	
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	
WiFi-AT4550	Atheros,QCNFA324 WiFi module w/ 2*30cm internal wiring	
ANT-D11	1 x Wi-Fi 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	
Core™ i7-7700	Intel® 7th Gen. Core™ i7-7700 processor, L2/8M, 3.6G, need configure TDP to 35W	
Core™ i5-7500	Intel® 7th Gen. Core™ i5-7500 processor, L2/6M, 3.4G, need configure TDP to 35W	

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