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
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, 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
Video Port: 1 x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
Selecta ble 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 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

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 CPU, w/o expansion
FPC-7900-W65: Box PC for 51W/65W CPU w/ SMART FAN, w/o expansion (BTO)
### Optional Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMK-7000</td>
<td>Wall-mount kit for FPC-7XXX Series</td>
</tr>
<tr>
<td>PAC-120W6B-FSP</td>
<td>120W AC/DC adapter kit w/ 2-pin/3-pin/4-pin block</td>
</tr>
</tbody>
</table>

### Optional Configuration (CTOS* Kit)

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80/120/150GB SSD</td>
<td>Intel® 2.5&quot; 80/120/150GB SATAIII SSD kit</td>
</tr>
<tr>
<td>WIFI-AT2350</td>
<td>Atheros AR9462 Wi-Fi module w/ 20&amp;30cm internal wires</td>
</tr>
<tr>
<td>ANT-H11</td>
<td>1 x 2dBi HSUPA antenna</td>
</tr>
<tr>
<td>ANT-D11</td>
<td>1 x WiFi dual-band 2.4G/5G antenna</td>
</tr>
<tr>
<td>Core™ i7-7700T</td>
<td>Intel® 7th Gen. Core™ i7-7700T processor, L2/8M, 2.9G</td>
</tr>
<tr>
<td>Core™ i5-7500T</td>
<td>Intel® 7th Gen. Core™ i5-7500T processor, L2/6M, 2.7G</td>
</tr>
<tr>
<td>Core™ i3-7101TE</td>
<td>Intel® 7th Gen. Core™ i3-7101TE processor, L2/3M, 3.4G</td>
</tr>
<tr>
<td>Core™ i5-7500</td>
<td>Intel® 7th Gen. Core™ i5-7500 processor, L2/6M, 3.4G</td>
</tr>
<tr>
<td>Xeon™ E3-1268L-V5</td>
<td>Intel® 6th Gen Xeon™ E3-1268L processor, L2/8M, 2.4G</td>
</tr>
<tr>
<td>MK-4C-4G/8G/16G</td>
<td>DDR4-2133 4GB/8GB/16GB SDRAM DIMM kit</td>
</tr>
</tbody>
</table>

*CTOS means Configure-to-Order Service.*

---

Dimensions

![Image of dimensions diagram](image_url)

**Unit:mm**