

# FPC-7702/7701

## Robust Box PC with Intel® Sandy Bridge / Ivy Bridge Platform



### Features

- **Fanless Design**
- Wide Range DC Power Input (9 ~36V)
- Support iAMT Function
- Support Various Video Interfaces (DVI-I + DVI-D)
- Support Optional WiFi or HSUPA Wireless Connectivity
- Rugged Design for Shock/Vibration Protection
- Memory Support up to 16GB (DDR3)
- Intel® SSD Compatible

### System

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| <b>CPU</b>            | Support Intel® 2nd & 3rd generation Core™ i7/i5/i3 or Celeron® processors in rPGA988 socket |
| <b>Memory</b>         | 2 x 204-pin DDR3 SO-DIMM sockets, supporting 1333/1600MHz SDRAM up to 16GB                  |
| <b>Chipset</b>        | Intel® QM77                                                                                 |
| <b>Graphics</b>       | Integrated Intel® HD 4000                                                                   |
| <b>ATA</b>            | 2 x Serial ATA ports with RAID 0/1 support<br>2 x eSATA                                     |
| <b>LAN Chipset</b>    | 2 x Intel® WG82583V GbE controllers<br>1 x Intel® WG82579LM GbE PHY w/ iAMT                 |
| <b>Watchdog Timer</b> | 1~255 levels reset                                                                          |

### I/O

|                        |                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Serial Port</b>     | 1 x DB-44 female connector<br>COM1/2 are RS-232<br>COM3/4 are RS-232/422/485 selectable, w/ 2.5kv isolated protection                                                                                                                                             |
| <b>USB Port</b>        | 6 x USB 2.0 ports, 4 x USB 3.0/ 2.0 ports<br>2 x internal USB dongle for software license key (optional)                                                                                                                                                          |
| <b>LAN</b>             | 3 x RJ-45 ports for GbE                                                                                                                                                                                                                                           |
| <b>Video Port</b>      | 1 x DVI-I female connector for Digital/ Analog Video output<br>1 x DVI-D female connector for Digital Video output                                                                                                                                                |
| <b>Selectable Port</b> | 1 x DB25 connector for 1 x DIO (8 in/8 out) port or 1 x LPT port (either one)<br>DIO by default, can be changed to LPT                                                                                                                                            |
| <b>Audio</b>           | Mic-in/Line-out                                                                                                                                                                                                                                                   |
| <b>Expansion Bus</b>   | 1 x Mini-card slot interconnected with SIM card socket for optional WiFi or HSUPA module<br>1 x SIM socket/1 x CFAST socket (outside accessible)<br>1 x PCIe x16 slot + 1 x PCI slot (FPC-7701)<br>1 x PCIe x16 slot + 1 x PCIe x8 slot (via x4 lanes) (FPC-7702) |

### Environmental

|                        |                                              |
|------------------------|----------------------------------------------|
| <b>Operating Temp.</b> | -20 ~ 55°C (-4 ~ 131°F), ambient w/ air flow |
| <b>Storage Temp.</b>   | -40 ~ 85°C (-40 ~ 185°F)                     |

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| <b>Operating Humidity</b> | 10 ~ 95% @ 55°C (non-condensing)                                     |
| <b>Vibration</b>          | 3 Grms/5~500Hz/random operation w/ SSD                               |
| <b>Shock</b>              | Operating 40G (11ms), Non-operating 60G with SSD<br>Crash 100G, 11ms |

### Qualification

|                      |                 |
|----------------------|-----------------|
| <b>Certification</b> | CE, FCC Class A |
|----------------------|-----------------|

### Power Requirement

|                          |                                        |
|--------------------------|----------------------------------------|
| <b>Power Input</b>       | DC 9~36V input w/ 4-pin terminal block |
| <b>Power Consumption</b> | 3.51A/19V, 67W (i7-3610QE)             |

### Storage

|             |                                         |
|-------------|-----------------------------------------|
| <b>Type</b> | 2 x 2.5" drive bays<br>1 x CFAST socket |
|-------------|-----------------------------------------|

### Mechanical

|                               |                       |
|-------------------------------|-----------------------|
| <b>Construction</b>           | Aluminum alloy        |
| <b>Mounting</b>               | Support wall-mounting |
| <b>Weight</b>                 | 7 kg (15.43 lb)       |
| <b>Dimensions (W x D x H)</b> | 225 x 267 x 120 mm    |

### OS Support

Windows XP Professional / Windows Embedded Professional 7 / Windows Embedded Standard 7

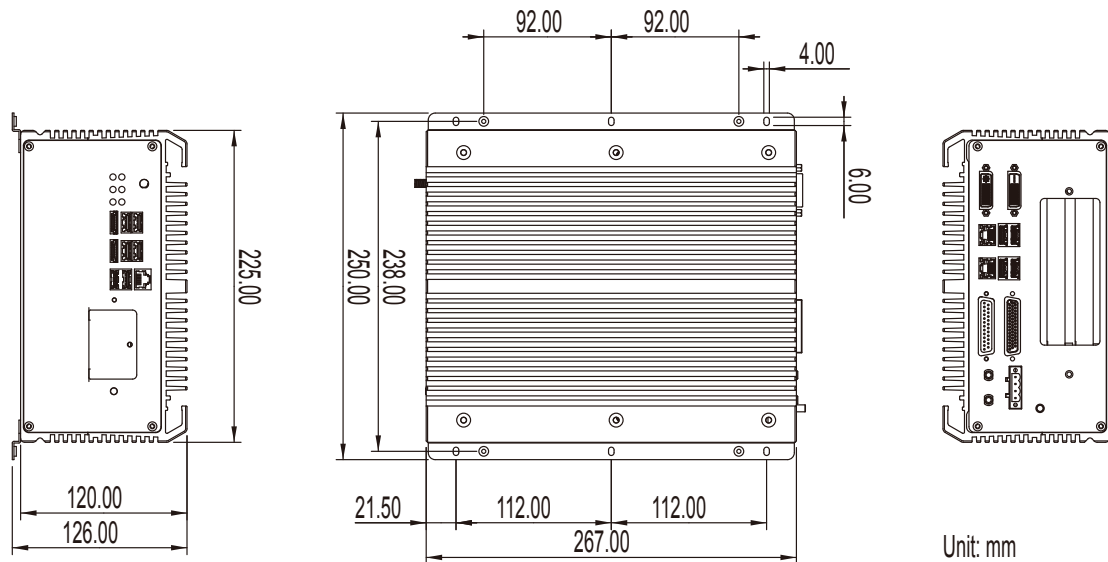
### Ordering Information

|                 |                                              |
|-----------------|----------------------------------------------|
| <b>FPC-7702</b> | Fanless system w/ 1 x PCIe x8 + 1 x PCIe x16 |
| <b>FPC-7701</b> | Fanless system w/ 1 x PCI + 1 x PCIe x16     |



All specifications are subject to change without notice.

## Dimensions



## Optional Accessories

**PAC-B120W-FSP** 19V/6.32A 120W AC/DC adapter kit



**CBL-7100-COM** 4 x COM ports converter cable



**WMK-7000** Wall-mount kit for FPC-7XXX Series



## Optional Configuration (CTOS\* Kit)

**SSD-25040** Intel® 2.5" 40GB SATAII SSD kit



**HSPA-SI1400** HSUPA 3.75G module kit & internal wiring



**WIFI-IN1300** Intel® Centrino® Advanced-N 6205 WiFi module w/ 20cm internal wiring



**ANT-H11** 1 x 2dBi HSUPA antenna



**ANT-D11** 1 x WiFi Dual-band 2.4G/5G antenna



**Core™ i3-3120ME** Intel® 3rd Gen. Core™ i3-3120ME processor, L2/3M, 2.4G

**Core™ i5-3610ME** Intel® 3rd Gen. Core™ i5-3610ME processor, L2/3M, 2.7G

**Core™ i7-3610QE** Intel® 3rd Gen. Core™ i7-3610QE processor, L2/6M, 2.3G



**MK-3C-4G-1** DDR3-1333 4GB SDRAM DIMM1 kit

**MK-3C-4G-2** DDR3-1333 4GB SDRAM DIMM2 kit

**MK-3C-8G-1** DDR3-1600 8GB SDRAM DIMM1 kit

**MK-3C-8G-2** DDR3-1600 8GB SDRAM DIMM2 kit



**UDK-7702** Internal USB dongle kit for FPC-7701/7702



\*CTOS means Configure to Order Service.

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