



# Rigid-750

## Extreme Rugged, Intel® Core™ i5-520M, Fanless Embedded Controller



### Features

- **Wide Operating Temperature (-40 ~ 70°C)**
- **Fanless Design**
- Wide Range DC Power Input (10 ~ 28V)
- Serial Port with 5V/12V Power Output
- Support RS-485 Auto-flow Function
- Support Various Video Interfaces (Analog RGB, DisplayPort, DVI)
- Support Outside Accessible CFast and SIM Slots
- Support Optional WiFi or HSUPA Wireless Connection
- Rugged Design for Shock/Vibration Protection
- Easy Installation/Maintenance
- Intel® SSD Compatible
- Support RAID 0/1

### System

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>CPU</b>            | Intel® Socket G Core™ i5-520M 2.4GHz processor                                                                  |
| <b>Memory</b>         | 2 x 204-pin DDR3 SO-DIMM sockets, supporting 800/1066MHz SDRAM up to 8GB<br>2GB WT DDR3 memory module installed |
| <b>Chipset</b>        | Intel® QM57                                                                                                     |
| <b>Graphics</b>       | Integrated Intel® HD Graphics controller                                                                        |
| <b>ATA</b>            | 2 x Serial ATA ports with 300MB/s HDD transfer rate                                                             |
| <b>LAN Chipset</b>    | 2 x Intel® WG82574IT GbE controllers                                                                            |
| <b>Watchdog Timer</b> | 1~255 levels reset                                                                                              |

### I/O

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Serial Port</b>     | 1 x DB-44 female connector<br>Support 4 x RS-232 ports (COM3, 4 are RS-232/485 selectable)                                                                            |
| <b>USB Port</b>        | 8 x USB 2.0 ports                                                                                                                                                     |
| <b>LAN</b>             | 2 x RJ-45 ports for GbE                                                                                                                                               |
| <b>Video Port</b>      | 1 x DB-15 female connector for Analog RGB<br>1 x DisplayPort<br>1 x DVI-D female connector for Digital Video output<br>DVI-D by default, can be changed to DIO or LPT |
| <b>Selectable Port</b> | 1 x 16-bit digital I/O, 8 in/8 out<br>SPP/EPP/ECP mode selectable for LPT                                                                                             |
| <b>Audio</b>           | Mic-in/Line-out (6W pre-amplified)                                                                                                                                    |
| <b>KB/MS</b>           | 1 x 6-pin Mini-DIN for keyboard and mouse<br>1 x PCIe x8 slot                                                                                                         |
| <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 (outside accessible)                                       |

### Environmental

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| <b>Operating Temp.</b>    | -40 ~ 70°C (-40 ~ 158°F), ambient w/ air flow          |
| <b>Storage Temp.</b>      | -40 ~ 85°C (-40 ~ 185°F)                               |
| <b>Operating Humidity</b> | 10 ~ 95% @ 70°C (non-condensing)                       |
| <b>Vibration</b>          | 3 Grms/5~500Hz/random operation                        |
| <b>Shock</b>              | Operating 40G (11ms), Non-operating 60G with CFast/SSD |

### Qualification

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

### Power Requirement

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Power Input</b>       | DC 10~28V input (w/ 4-pin DC input terminal block, combining remote power on/off switch) |
| <b>Power Consumption</b> | Max. 50W (w/o I/O card)                                                                  |

### Storage

|             |                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------|
| <b>Type</b> | 1 or 2 x 2.5" drive bays for HDD/SSD w/ 9.5mm height limit<br>1 x CFast socket, can be outside accessible |
|-------------|-----------------------------------------------------------------------------------------------------------|

### Mechanical

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Construction</b>           | Aluminum alloy                             |
| <b>Mounting</b>               | Support wall-mounting                      |
| <b>Weight</b>                 | 4.2 kg (9.24 lb)                           |
| <b>Dimensions (W x D x H)</b> | 195 x 268 x 90 mm (7.68" x 10.55" x 3.54") |

### OS Support

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

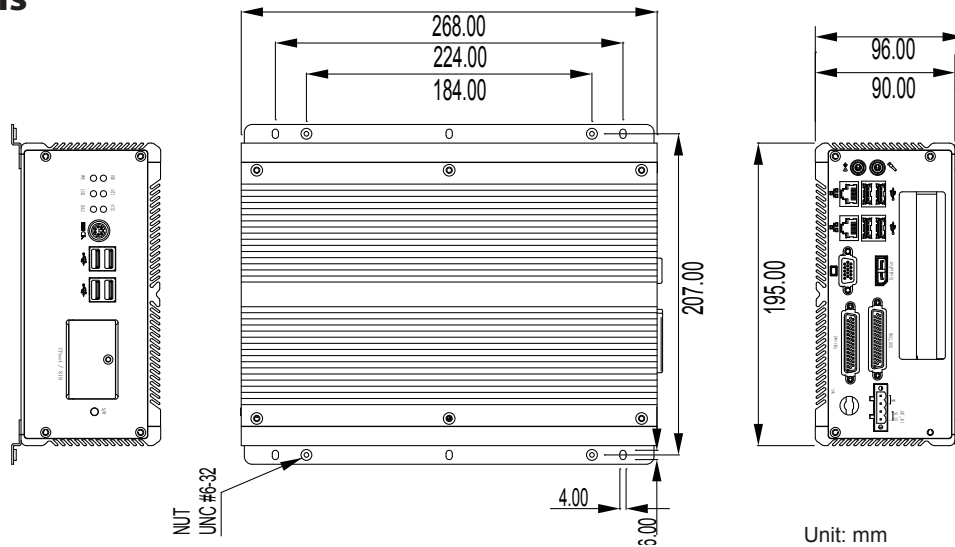
### Ordering Information

|                  |                             |
|------------------|-----------------------------|
| <b>Rigid-750</b> | Fanless embedded controller |
|------------------|-----------------------------|



» Fanless Design

## Dimensions



## Standard Accessories

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



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

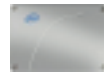


**WMK-7000** Wall-mount kit for FPC-7XXX Series

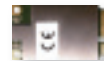


## Optional Configuration (CTOS\* Kit)

**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



**MK-3I-2G-2** Industrial DDR3 2GB SDRAM DIMM2 kit

**MK-3I-4G-2** Industrial DDR3 4GB SDRAM DIMM2 kit

**MK-3I-8G-2** Industrial DDR3 8GB SDRAM DIMM2 kit



\*CTOS means *Configure to Order Service*.

## » Front-access CFast & SIM for Easy Maintenance



Unscrew and pull down the door



Insert CFast card



Insert SIM card