

# Rigid-313

## Extreme Rugged, Intel® Atom™ D2550, Fanless Embedded Controller



### Features

- Wide Operating Temperature (-40 ~ 70° C)
- Ultra Low Power and Fanless Design
- Support RS-485 Auto-flow Function
- Support Two DVI Outputs (DVI-I x1/ DVI-D x 1)
- Support Outside Accessible CFast and SIM Slots
- Support Optional WiFi or HSUPA Wireless Connection
- Wide Range DC Power Input
- Ultra Low Profile Enclosure (33mm Height Max.)
- Smarter Ignition Power Management, Applicable for Vehicle Application
- Rugged Design for Shock/Vibration Protection
- Easy Installation/Maintenance
- Intel® SSD Compatible

### System

<b>CPU</b>	Soldered onboard Intel® Atom™ D2550 1.86GHz processor
<b>Memory</b>	1 x 204-pin DDR3 SO-DIMM socket, supporting 800/1066MHz SDRAM up to 4GB 2GB WT DDR3 memory module installed
<b>Chipset</b>	Intel® NM10 PCH
<b>Graphics</b>	Integrated Intel® GMA 3650
<b>ATA</b>	1 x Serial ATA port with 300MB/s HDD transfer rate
<b>LAN Chipset</b>	2 x Realtek 8111 GbE controllers
<b>Watchdog Timer</b>	1~255 levels reset

### I/O

<b>Serial Port</b>	2 x RS-232 ports / 2 x RS-232/422/485 selectable ports with DB-44 pin connector
<b>USB Port</b>	6 x USB 2.0 ports
<b>LAN</b>	2 x RJ-45 ports for GbE
<b>Video Port</b>	1 x DVI-I female connector for Digital Video Output 1 x DVI-D female connector for Digital Video Output
<b>Audio</b>	Mic-in/Line-in/Line-out (6W pre-amplified)
<b>Expansion Bus</b>	1 x Mini-card interconnected with SIM card socket for optional WiFi or HSUPA module 1 x SIM Card 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 80G with CFast/SSD

### Qualification

**Certification** CE, FCC Class B

### Power Requirement

**Power Input** DC 10~32V input (w/ 3-pin DC input terminal block)

**Power Consumption** Max. 30W (w/o I/O card)

### Storage

**Type**

- 1 x 2.5" drive bay for HDD/SSD
- 1 x CFast socket (Outside Accessible)

### Mechanical

**Construction** Aluminum alloy

**Mounting** Wall-mount/VESA-mount/Din rail mounting

**Weight** 1.89 kg (4.16 lb) (Bare-bone)

**Dimensions (W x D x H)** 252 x 199 x 33 mm (9.92" x 7.83" x 1.3")

### OS Support

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

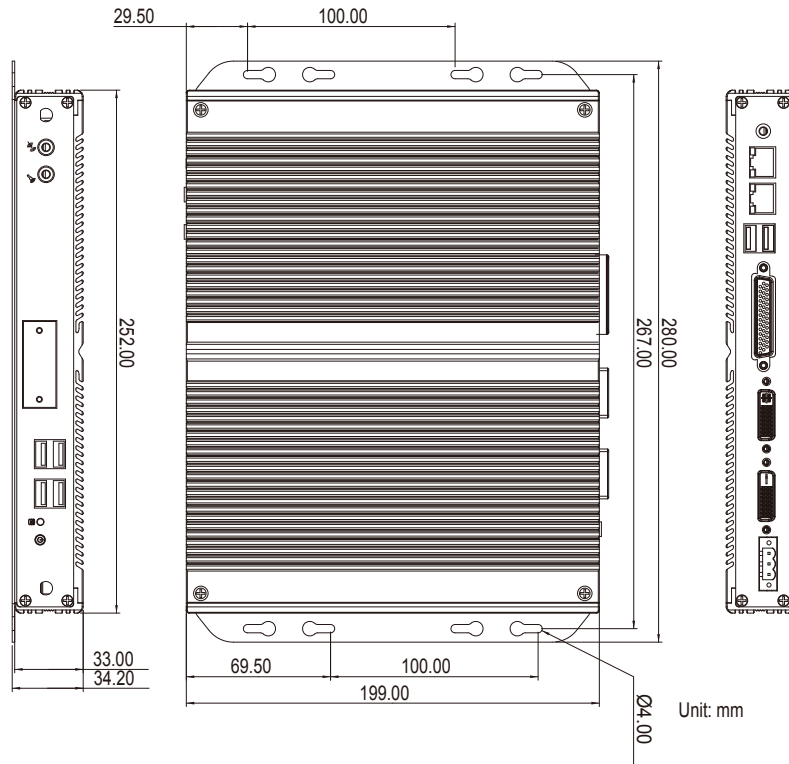
### Ordering Information

**Rigid-313** Fanless embedded controller



» Fanless Design

# Dimensions



## Standard Accessories

**PAC-P065W** 19V/3.4A 65W AC/DC adapter kit



**WMK-3100** Wall-mount kit



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



## Optional Accessories

**DRK-001** Din rail kit of FPC series



**VMK-3100** VESA mount kit



## 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



\*CTOS means Configure to Order Service.