

# Rigid-313

Extreme Rugged, Intel® Atom™ D2550, Fanless Vehicle Computer



## 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 CFast Slot
- Support Optional WiFi or HSUPA Wireless Connection
- Wide Range DC Power Input
- Ultra Low Profile Enclosure
- Rugged Design for Shock/Vibration Protection
- Easy Installation/Maintenance
- Expansion: 1 x Mini-card Slot, 1 x SIM Socket
- Intel® SSD Compatible

## System

<b>CPU</b>	Soldered onboard Intel® Atom™ D2550 1.86GHz processor
<b>Memory</b>	1 x 204-pin Dual Channels DDR3 SO-DIMM Socket up to 4GB at 800/1066MHz 2GB WT DDR3-1066 SDRAM installed by default
<b>Chipset</b>	Intel® NM10 PCH
<b>Graphics</b>	Integrated Intel® GMA 3150
<b>ATA</b>	1 x Serial ATA port with 300MB/s HDD transfer rate
<b>LAN Chipset</b>	2 x Realtek 8111E Gigabit Ethernet 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 Gigabit Ethernet
<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
<b>Expansion Bus</b>	1 x Mini-card interconnected with SIM card socket for optional WiFi or HSUPA module 1 x SIM Card Socket

## 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>Relative Humidity</b>	10 ~ 95% @ 40°C (non-condensing)
<b>Vibration</b>	3 Grms/5~500Hz/random operation
<b>Shock &amp; Crash</b>	Operating 20G (11ms), Non-operating 60G with HDD Operating 40G (11ms), Non-operating 80G with CF/SSD Crash 100G (11ms)

## Qualification

**Certification** CE, FCC

## Power Requirement

**Power Input** DC 10~28V input (w/ 1 x 3-pin DC input terminal block)

**Power Consumption** 30W (Max.)

## Storage

**Type** 1 x 2.5" drive bay for HDD/SSD  
1 x CFast Socket

## Mechanical

**Construction** Aluminum alloy

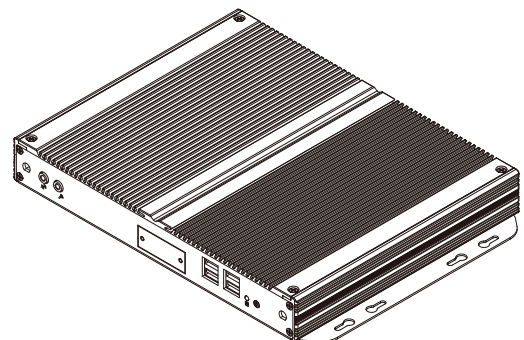
**Mounting** Wall-mount/VESA-mount/Din rail mounting

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

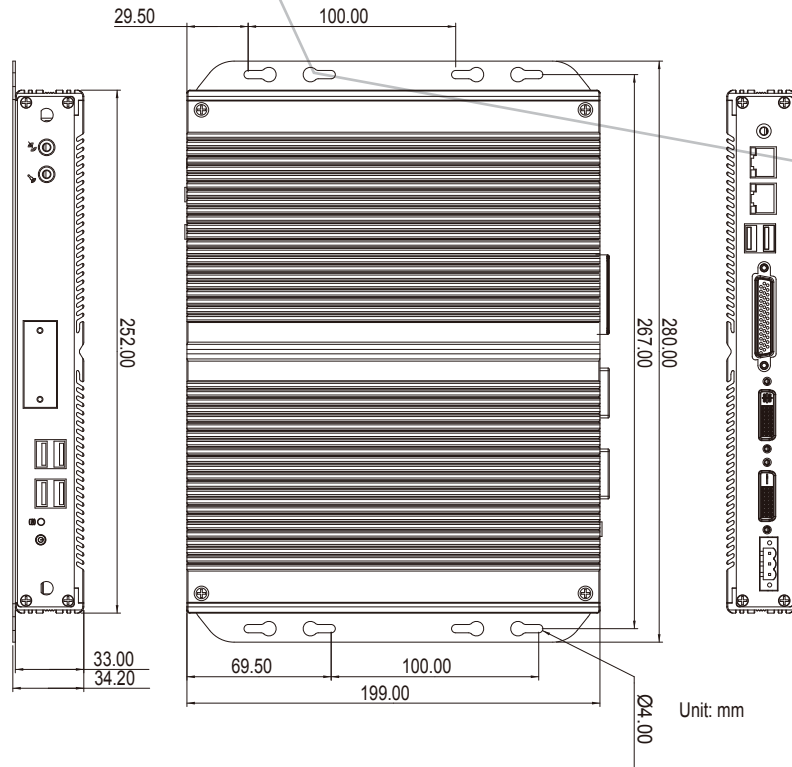
**Dimensions (W x D x H)** 252 x 199 x 33 mm (9.92" x 7.83" x 1.3")

## Ordering Information

**Rigid-313** Fanless embedded controller



## Dimensions



## Standard Accessories

**PAC-B065W-1**  
65W AC/DC adapter kit



<b>Power Input</b>	100 ~ 240 VAC
<b>Power Output</b>	19VDC, 3.4A, 65W

**WMK-3100**  
Wall-mount kit



<b>Material</b>	SECC
<b>Dimensions (W x D x H)</b>	280 x 192 mm (11" x 7.56")

**CBL-7100-COM**  
COM converter cable



<b>External I/O</b>	4 x COM ports
<b>Length</b>	200 mm

## Optional Accessories

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



<b>Material</b>	SPCC + Ni
<b>Dimensions (W x D x H)</b>	242 x 14 x 180 mm (9.53" x 0.55" x 7.09")

**VMK-3100**  
VESA mount kit



<b>Material</b>	SECC
<b>Dimensions (W x D x H)</b>	267 x 4.8 x 16.5 mm (10.5" x 0.19" x 0.37")

## Optional Configuration (CTOS\* Kit)

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



<b>Brand/Type</b>	Intel / 2.5 inch
<b>Interface</b>	SATAII
<b>Capacity</b>	40GB
<b>Dimensions (W x D x H)</b>	100.45 x 69.85 x 9.5 mm (3.95" x 2.75" x 0.37")

**HSUPA-3500**



**HSUPA 3.75G module kit w/ 2dBi HSUPA antenna & 25cm internal wiring**

**WiFi-3500**



**802.11 b/g/n WiFi module kit w/ 2dBi WiFi antenna & 15cm internal wiring**

\*CTOS means Configure to Order Service.

All specifications are subject to change without notice.

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