

# Rigid-311

Extreme Rugged, Intel® Atom™ N270, Fanless Embedded Controller



## Features

- **Wide Operating Temperature (-40 ~ 70°C)**
- Ultra Low Power and Fanless Design
- Dual Independent Displays via Analog RGB, LVDS Port
- 1 x Outside Accessible CF Slot
- Wide Range DC Power Input (10~28V)
- Ultra Low Profile Enclosure (33mm Height Max.)
- Rugged Design for Shock/Vibration Protection
- Easy Installation/Maintenance

## System

<b>CPU</b>	Soldered onboard Intel® Atom™ N270 1.6GHz CPU with 533MHz FSB
<b>Memory</b>	Soldered onboard 1GB DDR2-533 SDRAM
<b>Chipset</b>	Intel® 945GSE + ICH7M
<b>Graphics</b>	Integrated Intel® GMA950 GFx Core in 945GSE GMCH
<b>ATA</b>	1 x Serial ATA port with 150MB/s HDD transfer rate
<b>LAN Chipset</b>	2 x Realtek 8111 Gigabit Ethernet controllers
<b>Watchdog Timer</b>	1~255 levels reset

## I/O

<b>Serial Port</b>	1 x RS-232 port with RJ-45 connector 2 x RS-232/422/485 selectable ports with RJ-45 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 DB-15 female connector for Analog RGB 1 x LVDS connector, supports dual channels 24-bit LVDS output
<b>Audio</b>	Mic-in/Line-out
<b>Expansion Bus</b>	1 x Mini-card slot

## 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

<b>Certification</b>	CE, FCC
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## Power System

<b>Power Input</b>	DC 10~28V input (w/ 1 x 2-pin DC input terminal block)
<b>Power Consumption</b>	25W (Max.)
<b>Power Adapter</b>	65W AC/DC adapter

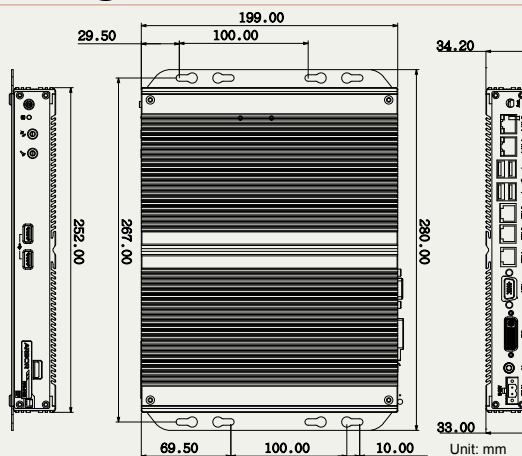
## Storage

<b>Type</b>	1 x 2.5" drive bay for HDD/SSD 1 x CompactFlash Type II Socket (outside accessible)
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## Mechanical

<b>Construction</b>	Aluminum alloy
<b>Mounting</b>	Wall-mount (Default integrated)/VESA-mount/Din rail mounting
<b>Weight</b>	1.89 kg (4.16 lb), w/o storage device
<b>Dimensions (W x D x H)</b>	252 x 199 x 33 mm (9.92" x 7.83" x 1.29")

## Drawing



## Ordering Information

<b>Rigid-311</b>	Fanless embedded controller
<b>DRK-001</b>	Din rail mounting kit for FPC series
<b>VMK-3100</b>	FPC-3100 VESA-mount kit
<b>SSD-25080</b>	Intel® 2.5" 80GB SATAII SSD kit