

RS-4610

Aluminum Fanless Sealed Vehicle Telematics Computer



Features

- Built-in Intel® Atom™ N270 processor
- Availability of GSM/GPRS/WCDMA/HSDPA/GPS
- e13 Mark Certification
- External smart battery back up support
- Power ignition on/off delay control
- Circulatory design for low-power protection
- 6~36V DC power input
- 1 PCI-104 Expansion Slot
- Multiple display interface connections (VGA, DVI-D and LVDS)
- Optional IP65 enclosure



PRODUCT OVERVIEW

Rave Computer's RS-4610 system is an innovative in-vehicle computer for use in any car, truck, boat or any other 6 to 36VDC application. The design is flexible allowing the user to easily meet varying requirements. The RS-4610 mechanical design is very compact and durable and features an extremely wide operating temperature range, thanks to the extremely low power consumption of the Intel Atom processor. The RS-4610 design is in compliance with the eMark vehicle industrial standard. The RS-4610 boasts an incredibly wide range of features which may be required for in-vehicle operation, such as power ignition delay control, low-power protection and SMBus connection, etc. The GPS function enables driver navigation applications which can be used to optimize fleet management. Optional 802.11b/g/n, 3.5G, and Bluetooth availability make the RS-4610 ready for wider wireless network coverage and ready to accommodate future trends. Multiple display connections make the RS-4610 an ideal choice for in-vehicle signage applications as well.

Rave's RS-4610 has a plethora of peripherals available, such as anti-shock/vibration mounting kits, a smart battery backup option, an IP65 kit for dust and splash resistance, and a radio frequency kit for GSM, GPRS, EDGE (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) UMTS WCDMA / HSDPA (2100 MHz) and UMTS WCDMA / HSDPA (850 MHz, 1900 MHz) bands.

Rave Computer

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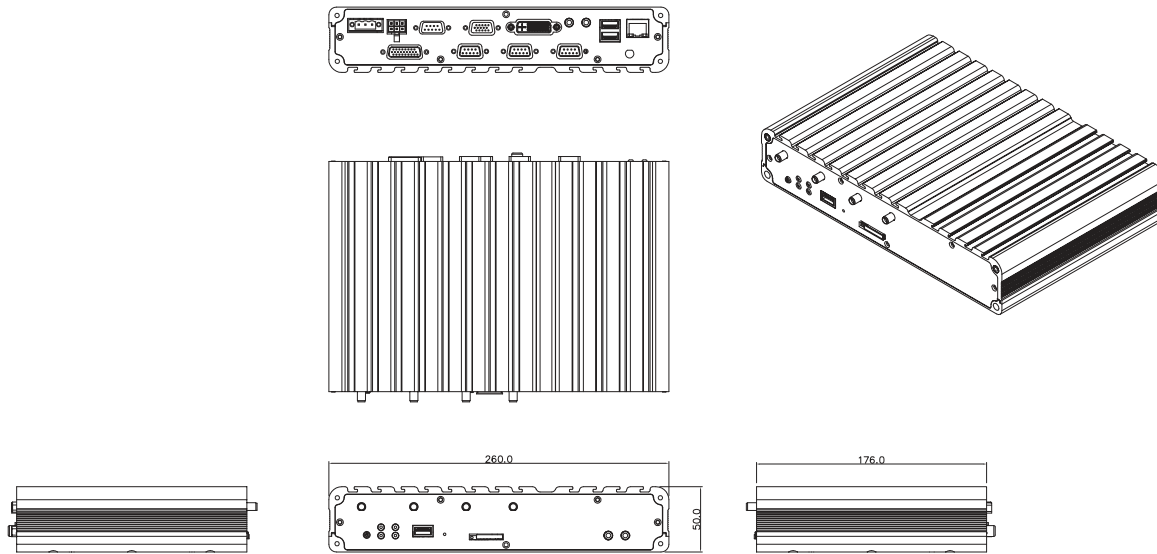
Integrated Solutions from Design to Delivery

RS-4610

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Dimension Drawing



Specifications	RAVE Computer's RS-4610 System
Main Chipset	945 GSE + ICH-7M
CPU	Atom N270 1.6GHz
Memory	DDR2 400/533 SO-DIMM up to 2GB
Expansion	1 x PCI-104 1 x Bluetooth module (Optional) 2 x Mini PCI express Socket 1 x PCIe interface 1 x PCIe & USB interface
I/O Interface	<p>Front:</p> <ul style="list-style-type: none"> 4 x SMA-type for WLAN, HSDPA, Bluetooth 1 x Power button 1 x Reset switch 1 x SIM Socket 1 x USB 4 x LED's for Stand-by, HDD, WLAN/HSDPA and GPO 1 x Mic-in & 1 x Line-out <p>Rear:</p> <ul style="list-style-type: none"> 2 x RS232 1 x RS232/485 w/ auto flow control 1 x DB26 LVDS (w/ +12V for backlight power & USB 2.0) 1 x DB15 VGA 1 x DVI-D 2 x USB 2.0 1 x 10/100/1000 Ethernet 1 x Mic-in & 1 Line-out 1 x SMA-type for GPS 1 x GPIO (4input & 4 output) 6V ~ 36V DC thru 3-pin connector (ignition, power & ground) +5V/+12V DC output, SMBus 5V DC (1A), 12V DC (1A), without VTK 33M-01 5V DC (0.5A), 12V DC (0.5A), with VTK 33M-01

Specifications	RAVE Computer's RS-4610 System
Expandable Storage	1 x 2.5" SATA II HDD + 1 x CF
Power management	Selectable for boot-up & shut-down voltage for low power protection HW design ready for 8-level Delay time on/off at user's self configuration Power on/off ignition, SW detectable S3 suspend mode support
Dimensions	280mm (W) x 50mm (H) x 176mm (D) (10.24" x 1.97" x 7")
Construction	Aluminum enclosure with fanless design
Environment	<p>Operating temperature: -30° C to +60° C with CF or Automotive HDD</p> <p>Storage temperature: -40° C to 80° C</p> <p>Relative humidity(Non-condensing): 10% to 90%</p> <p>Vibration (w/o vibration kit)</p> <ul style="list-style-type: none"> 2G @ 5-500Hz random with CF 1G @ 5-500Hz random with Automotive HDD <p>MIL-STD-810F Method 514.5 C-17 Category 20 Ground Vehicle-Highway Truck (in operation)</p> <p>Shock</p> <ul style="list-style-type: none"> Operating: MIL-STD-810F Method 516.5, Procedure I, Trucks and semitrailers=20g Non-Operating: MIL-STD-810F, Method 516.5, Procedure V, Ground equipment=75g
Certifications	CE approval FCC Class B e13 Mark

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