









R-BOX-PNV

rugged box pc

Fanless Intel® Atom™ Rugged Box PC
with Intel® ICH8-M Chipset



-  COMPACT DESIGN
-  WIDE TEMP / VOLTAGE
-  FAST SERVICE / SUPPORT
-  DUAL GIGABIT ETHERNET
-  ANTI VIBRATION / SHOCK
-  FANLESS

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R-PPC
Series

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SR-PPC
Series

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SR-LAP
Series

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R-LAP
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R-BOX
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Tactile R-BOX

The R-BOX series is a rugged box pc series which is used in vehicles, industrial machines, and military equipments. The R-BOX series is anti-vibration/shock certified and wide temperature bearable. Its modular concept and exclusively mechanical design facilitate conveniences for users. The fanless structure of thermal design contains passive aluminum heat dissipation fins on top of chassis. Inside a 3.5-inch single-board-computer and hard disk are put in horizontal way to improve the cooling efficiency. These not only reduce material wastage, but also prolong product lifetime.

Durable

The reliability and stability of R-BOX systems are certified by industrial product quality tests, including anti-vibration of up to 5 Grms, and anti-shock of up to 50 Grms tests. The CF slot comes with a secure metal piece to prevent loose. Using a lockable or industry-grade Phoenix Type power connector plug supports a stable +9V to +32V wide voltage input (optional). These conditions include using computer in industrial equipments and machines like lifting gantry or forklift; on land transportations such as trains, thus extending and diversifying its applications.

Application environments

Manufacturing
Transportation

Waste vehicles
Harbors

Warehouse & Logistics
Trucks & forest vehicles

Operating systems

- Windows XP Professional
- Windows XP Embedded
- Linux

Features

- R-422/485
- 2.5" HDD SLOT
- Wifi 802.11b/g
- Fanless
- No moving parts
- Dual gigabit ethernet





CPU & Memory

CPU

Intel Atom D510 1.6 GHz Dual Core (Optional: D410 / N450)

Chipset

Intel® ICH8-M

Memory

1GB DDR2 667 SDRAM

2GB DDR2 667 SDRAM (optional)

SDD

1x Compact flash Type I/II

With cover and eject button

Storage

Hard drive

80GB SATA HDD (hidden)

Display

Display chip

Intel Pineview Integrated, GMA3135 @ 400 MHz

I/O Interface

Serial

3x Serial (COM2 RS-232/422/485)

3x Serial in front (optional)

USB

5x USB 2.0, Rear 4; Front 1

VGA

VGA DB15

Sound

AC 97 Codec Realtek ALC888 Supports 5.1-CH Audio

Mic-in (3.55mm)

Line-in (3.55mm)

Line-out (3.55mm)

Ethernet

10/ 100/ 1000 Base-Tx Gigabit Ethernet Realtek RTL811C

2x Gigabit RJ45

Expansion Interface

1x Mini PCIe Slot, Internal (hidden)

Dimension & Weight

Height 55 mm

Width 271 mm

Depth 150 mm

Weight 2.5 kg

Power Supply Unit

Power requirement

12 V

9 - 32V (optional)

Power Input

100 to 240 VAC / 50 - 60 MHz

Power Output

12 VDC /5A (Screw Type 60W)

Environment

Operating temperature

-10 °C to +50 °C

Storage temperature

-40 °C to +75 °C

Humidity

5 - 90 % RH, non condensing

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