









R-BOX-A

rugged box pc

Fanless Intel® Atom™ Rugged Box PC
with Intel® 945GSE + ICH7-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-A

Tactile R-BOX-A is a slimmed rugged box computer developed and designed for harsh environments. The fanless design includes an internal heatsink and external housing consisting of extruded aluminum alloy blades that conduct heat inside out passively and quickly. It is capable of running 24/7 in harsh environments and extremely wide operating temperatures from -15 to 60 degree Celsius. The R-BOX-A features less than 30 watts of energy consumption.

Connectivity

The R-BOX-A is embedded with an EIPC computing board. The R-BOX-A features SATA, EIDE, external CF socket, 6 x COM ports, 6 x USB2.0 ports (two in front), two PCI slots (R-BOX-XL), one VGA, and two Gigabit Ethernet ports. In addition, the R-BOX-A offers line-in / line-out - audio jacks. The industrial box PC also includes a 34mm Express Card socket for wireless connectivity, video capture, and extra storage.

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
- -15 °C to +60 °C
- Fanless
- No moving parts
- Dual gigabit ethernet





CPU & Memory

CPU

Intel Atom N270 1.6 GHz 512K L2 Cache

Chipset

Intel® 945GSE/ ICH7-M

Memory

1GB DDR2 533 SDRAM

2GB DDR2 533 SDRAM (optional)

SDD

1x Compact flash Type I/II

Storage

Hard drive

Mounting Kit for One 2.5" HDD (Hidden)

I/O Interface

Serial

6x Serial (COM2 RS-232/422/485)

USB

6x USB 2.0

VGA

VGA DB15 (standard)

Sound

AC 97 Codec Realtek ALC655 Supports 5.1-CH Audio

Line-in (3.5mm)

Line-out (3.5mm)

Ethernet

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

2x Gigabit RJ45

Expansion Interface

1x Express Card 34mm slot

Dimension & Weight

Height 80 mm

Width 220 mm

Depth 160 mm

Weight 2 kg

Power Supply Unit

Power requirement

9 - 32 V

Power Input

100 to 240 VAC / 50 - 60 MHz

Power Output

12 VDC /5A (Screw Type 60W)

Environment

Operating temperature

-15 °C to +60 °C

Storage temperature

-40 °C to +75 °C

Humidity

5 - 90 % RH, non condensing

Vibration Protection

With Compact Flash: 5Grms. IEC 60068-2-64

Random, 5 to 500Hz 1hr/axis

With HDD: 1Grms, IEC 60068-2-64, Random, 5 to 500MHz,

1hr/axis

Shock Protection

With Compact Flash: 50G. IEC 60068-2-27

Half sine 11ms

With HDD: 20G, IEC 60068-2-24, Half sine 11ms

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