

Model Information



■ Features

- Intel Atom D525 1.8 GHz
- 1 GB DDR2 SDRAM
- Express Card 34 slot
- HD Audio, speaker and microphone
- HDD/SSD drive bay
- 2 x Giga LAN
- Digital and Analogue I/O
- Option: WLAN, Bluetooth, GPS, 3G/GSM
- Option: CAN Bus 1Mbit/s

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RISE 5300

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■ Overview

The RISE series of DinRail-PC is designed for harsh industrial environments. It features fanless and cableless, low power consumption and operating over wide temperature ranges. Its reliable design allows to withstand mechanical vibrations, extremely hot or cold environments, power failures or environmental electrostatic discharges.

The RISE series has a modular and reliable design based on the newly emerged standard of Qseven core modules, which supports both Intel's Atom and Via's Nano high performance CPUs.

The RISE series integrates a rich choice of connectivity devices, such as multiple LANs, USB and serial ports, VGA, digital I/O and optionally WLAN, Bluetooth, 3G/GPRS modems and CAN bus to match different industrial application requests.

■ Chassis

Construction

Full size stainless steel
Aluminum cooling plate with fins

Mounting configuration

DIN Rail

Cooling system

passive heatsink, fanless

LED indicator

Power on/off, HDD access, LAN access

Expansion slot

1 x Mini PCI Express

- PCIe x1
- USB 2.0 and 1.x

Expansion slot	1 x Express Card 34 <ul style="list-style-type: none"> • PCIe x1 • USB 2.0 and 1.x
Dimensions	163 x 111 x 83 mm ³
Power switch	Bottom side
Reset Switch	Bottom side

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■ Hardware

Processor	Intel Atom D525 @ 1.8GHz
Cores	2 (4 by Hyperthreading)
CPU socket	Q7 module
BIOS	Phoenix - Award BIOS
Chipset	ICH8M

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■ Memory

Memory type	DDR2 1GB
Memory socket	soldered onto Q7 module
BIOS	8MBit SuperFlash

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■ Video

VGA Controller	GMA3150 GPU integrated in D525
Video RAM	up to 256MB frame buffer
Interface	VGA
Resolution	Up to 2048 × 1536 / 32bit

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■ Integrated Devices

HDD/SSD Bay	1 x 1.8" SATA HDD or SSD
CF card slot	1 x CF card in True IDE mode
HD-Audio	Mic-in 1 x Speaker-out
Real Time clock	Standard
Keyboard/Mouse	Connect at USB Internal pin header for PS/2 Keyboard and Mouse

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■ Connectivity

LAN	2 x RJ45 GigaLAN <ul style="list-style-type: none"> • Realtek RTL8111E (support PXE boot) • Marvell 88E8057 (support PXE boot)
USB	4 x USB 2.0, support boot function
VGA	1 x 15-pin connector
Com Ports	<ul style="list-style-type: none"> • 2 x RS232 DB9 male, max. 115.200bps • 1 x RS232 DB9 male, max. 500.000bps • 1 x RS422/485 on terminal block • Up to 1 Mbit/s (theor. 12 MBit/s).

RS422/485

- RS422 Full-Duplex, RS485 bus mode configured by DIP switch.
- RS485 Automatic Transceiver control.
- Signals on Terminal Block.

HD-Audio

Line-in (Mic-in)
Line-out ear-jet connectors

Terminal Blocks on Top and Bottom side

Digital I/O

- 4 x Output
- 4 x Input
- 2 x Counter
- 2 x ADC
- 1 x I²C

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■ Power supply

Power input DC 10-30V

Power consumption min 17W

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■ Environment

Operating Temp. -20° to +55°C

Storage Temp. -20° to +80°C

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■ Supported OS

Microsoft Windows XP/XPE, Windows 7

Linux Kernel 2.6 / 3.x

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■ Ordering Information

Art.No 3860

Product Name RISE 5300

Packing list

RISE 5300 Embedded System
Terminal blocks for Digital-I/O and Power supply
CD-ROM with English documentation, drivers and tools

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