

## Model Information



### ■ Features

- Intel Atom Z530P 1.6 GHz
- 533MHz FSB
- 512 MB DDR2 SDRAM
- Express Card 34 slot (USB interface)
- HD Audio, speaker and microphone
- HDD/SSD drive bay
- 2 x Giga LAN
- Digital and Analogue I/O
- CAN Bus 1Mbit/s
- Option: WLAN, Bluetooth, GPS, 3G/GSM

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# RISE 3310

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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 Z5xxP and Via's Nano/Eden 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, CAN and POE+ to match different industrial application requests.

### ■ Chassis

<b>Construction</b>	Full size stainless steel Aluminum cooling plate with fins
<b>Mounting configuration</b>	DIN Rail
<b>Cooling system</b>	passive heatsink, fanless
<b>LED indicator</b>	Power on/off, HDD access, LAN access
<b>Expansion slot</b>	1 x Mini PCI Express, PCIe x1 USB signals 2.0 High Speed only
	1 x Express Card 34

<b>Expansion slot</b>	USB 2.0 High Speed only
<b>Dimensions</b>	163 x 111 x 83 mm <sup>3</sup>
<b>Power switch</b>	Bottom side
<b>Reset Switch</b>	Bottom side

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## ■ Hardware

<b>Processor</b>	Intel Atom Z530P @ 1.6GHz, 533MHz FSB
<b>Cores</b>	2 by Hyperthreading
<b>CPU socket</b>	Q7 module
<b>BIOS</b>	Phoenix - Award BIOS
<b>Chipset</b>	US15WP

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## ■ Memory

<b>Memory type</b>	DDR2 512MB
<b>Memory socket</b>	soldered onto Q7 module
<b>BIOS</b>	8MBit SuperFlash

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## ■ Video

<b>VGA Controller</b>	Graphics Memory Controller Hub integrated in US15W
<b>Video RAM</b>	up to 128MB frame buffer
<b>Interface</b>	VGA
<b>Resolution</b>	Up to 1280 × 1024 / 32bit
<b>Extras</b>	MPEG-2, MPEG-4, VC1, WMV9 and H.264 video decoding acceleration

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## ■ Integrated Devices

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

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## ■ Connectivity

<b>LAN</b>	2 x RJ45 GigaLAN (Marvell 88E8057) support PXE boot
<b>USB</b>	4 x USB 2.0, support boot function
<b>VGA</b>	1 x 15-pin connector
<b>Com Ports</b>	<ul style="list-style-type: none"> <li>• 2 x RS232 DB9 male, max. 115.200bps</li> <li>• 1 x RS422/485 on terminal block</li> </ul>
<b>RS422/485</b>	<ul style="list-style-type: none"> <li>• Up to 1 Mbit/s (theor. 12 MBit/s).</li> <li>• RS422 Full-Duplex, RS485 bus mode configured by DIP switch.</li> <li>• RS485 Automatic Transceiver control.</li> <li>• Signals on Terminal Block.</li> </ul>
	Line-in (Mic-in)

<b>HD-Audio</b>	Line-out ear-jet connectors
<b>Digital I/O</b>	Terminal Blocks on Top and Bottom side <ul style="list-style-type: none"> <li>• 4 x Output</li> <li>• 4 x Input</li> <li>• 2 x Counter</li> <li>• 2 x ADC</li> <li>• 1 x I<sup>2</sup>C</li> </ul>

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<b>■ CAN interface</b>	
<b>Speed</b>	CAN High Speed (up to 1Mbit/s) for transmit/receive
<b>Signals</b>	CAN_H, CAN_L, CAN_GND
<b>Controller</b>	SJA1000 (Philips)
<b>Transceiver</b>	TJA1050 (Philips)
<b>Standards</b>	CAN 2.0A and 2.0B, ISO11898
<b>CAN Listen mode</b>	Passive receive of CAN Frames, neither ACK bits nor Error Frames
<b>Connector</b>	DB9 male
<b>Library</b>	Functions for simple access
<b>CANFestival</b>	CANopen examples showing Master/Slave communication

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<b>■ Power supply</b>	
<b>Power input</b>	DC 10-30V
<b>Power consumption</b>	min 17W

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<b>■ Environment</b>	
<b>Operating Temp.</b>	-20° to +60°C
<b>Storage Temp.</b>	-20° to +80°C

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<b>■ Supported OS</b>	
<b>Microsoft</b>	Windows XP/XPE, Windows 7
<b>Linux</b>	Kernel 2.4 / 2.6 / 3.x

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<b>■ Ordering Information</b>	
<b>Art.No</b>	3883
<b>Product Name</b>	RISE 3310
<b>Option PoE+</b>	On Special Request: Alternative supply 25W Power over Ethernet By PoE+ 802.3at standard
<b>Option 1.1GHz</b>	On Special Request: Processor Z510P @ 1.1GHz
<b>Option 1.33GHz</b>	On Special Request: Processor Z520PT @ 1.33GHz
<b>Packing list</b>	RISE 3310 Embedded System Terminal blocks for Digital-I/O and Power supply CD-ROM with English documentation, drivers and tools

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