

Model Information



■ Features

- VIA Nano 1.3GHz
- VX800 chipset, 800/500MHz FSB
- 1 GB 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
- Option: WLAN, Bluetooth, GPS, 3G/GSM
- Option: CAN Bus 1Mbit/s

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RISE 4300

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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 to match different industrial application requests.

The option of CAN bus is realized in the [RISE 4310](#) model.

■ 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	<ul style="list-style-type: none"> ● 1 x Mini PCI Express ● PCIe x1

- USB 2.0 and 1.x

Expansion slot

- 1 x Express Card 34
- USB 2.0 and 1.x only

Dimensions

163 x 111 x 83 mm³

Power switch

Bottom side

Reset Switch

Bottom side

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■ Hardware

Processor

VIA NANO 64 bit @ 1.3GHz, 800MHz FSB

CPU socket

Q7 module

BIOS

Phoenix - Award BIOS

Chipset

VIA VX800

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■ Memory

Memory type

DDR2 1GB

Memory socket

soldered onto Q7 module

BIOS

4MBit SPI Flash

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■ Video

VGA Controller

VIA Chrome9™ HC3 integrated graphics

Video RAM

up to 256MB frame buffer

Interface

VGA

Resolution

Up to 1920 × 1080 / 32bit

Extras

MPEG-2, MPEG-4, VC1 and DivX video decoding acceleration

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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 (Marvell 88E8057) support PXE boot

USB

4 x USB 2.0, support boot function

VGA

1 x 15-pin connector

Com Ports

- 2 x RS232 DB9 male, max. 115.200bps
- 1 x RS232 DB9 male, max. 500.000bps
- 1 x RS422/485 on terminal block

RS422/485

- Up to 1 Mbit/s (theor. 12 MBit/s).
- 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

Digital I/O

Terminal Blocks on Top and Bottom side

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

CAN bus

CAN bus is realized in the [RISE 4310](#) model.

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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 2.4 / 2.6 / 3.x

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■ Ordering Information

Art.No

3870

Product Name

RISE 4300

Option CAN

CAN bus interface, replaces Com3
See [RISE 4310](#) system

Option 1.0GHz

Processor Nano @ 1.0GHz
See [RISE 4200](#) system

Packing list

RISE 4300 Embedded System
Terminal blocks for Digital-I/O and Power supply
CD-ROM with English documentation, drivers and tools

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