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
- CAN Bus 1Mbit/s
- Digital and Analogue I/O
- Option: WLAN, Bluetooth, GPS, 3G/GSM

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RISE 4310

Quick Link: | Features | More Pictures | Overview | Chassis | Hardware | Memory | Video | Integrated Devices | Connectivity | CAN interface | Power supply | Environment | Supported OS | Ordering Information |

More Pictures

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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 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 • 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 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

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CAN interface

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

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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	3873, available On Special Request
Product Name	RISE 4310
Packing list	RISE 4310 Embedded System Terminal blocks for Digital-I/O and Power supply CD-ROM with English documentation, drivers and tools

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