RISE 4200

Q7 based / VIA Nano 1.0GHz Industrial Embedded System

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
Hardware	
Processor	VIA NANO 64 bit @ 1.0GHz, 500MHz FSB
CPU Socket	Q7 module
BIOS	Phoenix - Award BIOS
Chipset	VIA VX800
Memory	
Memory Type	DDR2 1GB
Memory Socket	Soldered onto Q7 module
BIOS	4MBit SPI Flash
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
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
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

RISE 4200 (Art No. 3871)
sales contact : **sales@vscom.de**

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Power Supply	
Power Input	DC 10-30V
Power Consumption	Min 18W
Environment	
Operating Temp.	− 20° to + 55°C
Storage Temp.	− 20° to + 80°C
Supported OS	
Microsoft	Windows XP/XPE, Windows 7
Linux	Kernel 2.4 / 2.6 / 3.x
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
Ordering Information	
Art. No.	3871
Product Name	RISE 4200
Option CAN	CAN bus interface, replaces Com3, see RISE 3310 (Art No.3883)
Option 1.3GHz	Processor Nano @ 1.3GHz, see RISE 4300 (Art No.3870)
Packing list	◆ RISE 4200 Embedded System
	◆ Terminal blocks for Digital-I/O and Power supply
	◆ CD-ROM with English documentation, drivers and tools

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.

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