

RISE 4000 series

Qseven based Industrial DIN-Rail Embedded PC

CHASSIS	
Construction	Full size SECC 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, PClex 1; 1 x Express Card 34 (USB driven), USB2.0 and 1.x
Dimensions	163 x 111 x 83 (mm)
Power switch	Bottom side
Reset Switch	Bottom side
HARDWARE	
Processors	VIA NANO 64 bit @ 1.3GHz, 800MHz FSB (available model : RISE 4310) VIA NANO 64 bit @ 1.0GHz, 800MHz FSB VIA Eden @ 500MHz, 500MHz FSB
CPU socket	Q7 module
BIOS	Phoenix-Award
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 1024 x 768 / 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
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
USB	4 x USB 2.0 Supports boot function from USB
VGA	1 x 15-pin connector
Com Ports	2 x RS232 DB9 male, max. 115.200bps 1 x RS232 DB9 male, max. 500.000bps. Replaceable by CAN (RISE 4310 only) 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

The RISE 4000 series of DIN-Rail PC are 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 with mechanical vibrations, extremely hot or cold environments, power failures or environmental electrostatic discharges.

The RISE 4000 series has a modular and reliable design based on the newly emerged standard of Qseven core modules, which supports Via's Nano/Eden high performance CPUs. The RISE 4000 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 to match different industrial application requests.

DIGITAL and ANALOGUE I/O																													
Input	4 x Digital, TTL level (0.0 to 0.8V, 2.0 to 5.0V) System Wake-Up Capability by DI changes																												
Output	4 x Digital, TTL level Source: 32mA@High (2.0 to 5.0V) Sink: 64mA@Low (0.0 to 0.6V)																												
Counter	2 x TTL level, programmable count period																												
ADC	2 x Single Ended Channels; Input Range: 0.0 to 10.0V; Resolution: 10 Bit																												
I ² C	1 x for external Wake-Up																												
Connectors	Terminal Blocks on Top and Bottom																												
POWER SUPPLY																													
Power supply	DC 10-30V																												
Consumption	Min. 21W																												
ENVIRONMENT																													
Operating Temp.	-20° to +55°C																												
Storage Temp.	-20° to +80°C																												
SUPPORTED OS																													
Windows	Win XP, Win XPE, Windows 7																												
Linux	Kernel 2.4 / 2.6																												
CAN INTERFACE (optional)																													
Speed	CAN High Speed (up to 1Mbit/s) for transmit/receive																												
Signals	CAN_H, CAN_L, CAN_GND, CAN_V+, 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, replaces RS232 port 3																												
Library	Functions for simple access																												
CANFestival	CANopen examples showing Master/Slave communication																												
Approvals																													
EMC	FCC Class A, CE Class A																												
Environment	RoHS																												
ORDERING INFORMATION																													
Art.No	3870 (RISE 4300)																												
Product Name	RISE 4000 series																												
Order Options	<table border="1"> <tr> <td>RISE</td> <td>4</td> <td>X</td> <td></td> <td>Y</td> <td></td> <td>O</td> </tr> <tr> <td></td> <td></td> <td>3</td> <td>Nano 1.3GHz</td> <td>0</td> <td>no CAN</td> <td></td> </tr> <tr> <td></td> <td></td> <td>2</td> <td>Nano 1.0GHz</td> <td>1</td> <td>with CAN</td> <td></td> </tr> <tr> <td></td> <td></td> <td>1</td> <td>Eden 0.5GHz</td> <td></td> <td></td> <td></td> </tr> </table>	RISE	4	X		Y		O			3	Nano 1.3GHz	0	no CAN				2	Nano 1.0GHz	1	with CAN				1	Eden 0.5GHz			
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Packing list	RISE 4000 series Embedded System, Terminal blocks for Digital-I/O and Power supply CD, English documentation																												
Optional Accessories	mPCIe module for Wireless LAN Express card module for 3G/UMTS/HSDPA/GPRS/GSM mPCIe module for Bluetooth																												

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