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RISE 3311

Q7 based / Intel Atom Z530P 1.6 GHz Industrial Embedded System
with CAN Bus and PoE+

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	Intel Atom Z530P @ 1.6GHz, 533MHz FSB
Cores	2 by Hyperthreading
CPU Socket	Q7 module
BIOS	Phoenix - Award BIOS
Chipset	US15WP

Memory	
Memory Type	DDR2 512MB
Memory Socket	Soldered onto Q7 module
BIOS	8MBit SuperFlash

Video	
VGA Controller	Graphics Memory Controller Hub integrated in US15W
Video RAM	Up to 128MB frame buffer
Interface	VGA
Resolution	Up to 1280 × 1024 / 32bit
Extras	MPEG-2, MPEG-4, VC1, WMV9 and H.264 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 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 3311 (Art No. 3885)
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1   VS Vision Systems GmbH, reserves the right to change products or specifications without notice.

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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
Power Supply	
Power Input	DC 10-30V
Power Consumption	Min 17W
Power over Ethernet	Alternative supply 25W, by PoE+ 802.3at standard
Environment	
Operating Temp.	−20° to +60°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.	3885
Product Name	RISE 3311
Packing List	◆ RISE 3311 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, CAN and POE+ to match different industrial application requests.

You can purchase VSCOM's products easily from a wide variety of leading technology distributors or partners.
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