

RISE 3000 series

Qseven based Industrial DIN-Rail Embedded PC

CHASSIS	
Construction	Full size stainless steel
Constituction	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, 1 x Express Card 34 (USB driven)
Dimensions	163 x 111 x 83 (mm)
Power switch	Bottom side
Reset Switch	Bottom side
HARDWARE	
Processors	Intel Atom Z530 @ 1.6GHz, 533MHz FSB
	Intel Atom Z520 @ 1.3GHz, 533MHz FSB
	Intel Atom Z510 @ 1.1GHz, 400MHz FSB
Cores	2 by Hyperthreading
CPU socket	Q7 module
BIOS	Phoenix-Award
Chipset	US15W
MEMORY	
Memory type	DDR 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
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
USB	4 x USB 2.0
333	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. Repacleable by CAN
	1 x RS422/485 on terminal block
RS422/485	Up to 1 Mbit/s (theor. 12 MBit/s)
10122/100	RS422 Full-Duplex
	RS485 bus mode configured by DIP switch
	RS485 Automatic Transceiver control
	Signals on Terminal Block
HD-Audio	Line-in (Mic-in)
TIB Addio	Line-out ear-jet connectors
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The RISE 3000 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 3000 series has a modular and reliable design based on the newly emerged standard of Qseven core modules, which supports Intel's Atom Z5xxP high performance CPUs. The RISE 3000 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.

DIGITAL and ANALOGUE I/O	
Input	4 x Digital, TTL level (0.0 to 0.8V, 2.0 to 5.0V)
put	Wake-Up Capability
Output	4 x Digital, TTL level
o a.pa.	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, 0.0 to 10.0V Input, 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. 17W
ENVIRONMENT	
Operating Temp.	-20° to +60°C
Storage Temp.	-20° to +80°C
SUPPORTED OS	20 10 100 0
	Min 7 Min VD Min VDF
Windows	Win 7, Win XP, Win XPE Kernel 2.4 / 2.6
Linux CAN INTERFACE (optional)	Kerner 2.4 / 2.0
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 Connector	Passive receive of CAN Frames, neither ACK bits nor Error Frames DB9 male, replaces RS232 port 3
Library	Functions for simple access
CANFestival	CANopen examples showing Master/Slave communication
PoE+ (optional)	Orthopen examples showing waster/olave communication
Standards	000 204
	802.3at 25W
Levels	ZOVV
Approvals	
EMC	FCC Class A, CE Class A
Environment	RoHS
ORDERING INFORMATION	2000
Art.No	3880
Product Name	RISE 3000 series
Order Options	RISE 3 X Y Z
	3 Z530 1.6GHz 0 no CAN 0 no PoE+
	2 Z520 1.3GHz 1 with CAN 1 with PoE+
	1 Z510 1.1GHz
Packing list	RISE 3000 series Embedded System, Terminal blocks for Digital-I/O and Power supply
Fackling list	CD, English documentation
Optional Accessories	mPCIe module for Wireless LAN
Optional Accessories	Express card module for 3G/UMTS/HSDPA/GPRS/GSM
	mPCle module for Bluetooth
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