RISE 5300



Q7 based / Intel Atom D525 @ 1.8GHz 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 |
| | PCle x1, USB 2.0 and 1.x |
| Expansion Slot | 1 x Express Card 34 |
| | PCIe x1, USB 2.0 and 1.x |
| Dimensions | 163 x 111 x 83 mm ³ |
| Power Switch | Bottom side |
| Reset Switch | Bottom side |
| Hardware | |
| Processor | Intel Atom D525 @ 1.8GHz |
| Cores | 2 (4 by Hyperthreading) |
| CPU Socket | Q7 module |
| BIOS | Phoenix - Award BIOS |
| Chipset | ICH8M |
| Memory | |
| Memory Type | DDR2 1GB |
| Memory Type Memory Socket | Soldered onto Q7 module |
| BIOS | 8MBit SuperFlash |
| | on or other dependent |
| Video | COLLEGE CRIME AND A LABOR CRIM |
| VGA Controller | GMA3150 GPU integrated in D525 |
| Video RAM Interface | Up to 256MB frame buffer VGA |
| Resolution | Up to 2048 × 1536 / 32bit |
| | Ορ t0 2040 X 13307 32bit |
| 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 |
| | internal pili neader for 15/2 Neyboard and Mouse |
| Connectivity | |
| LAN | 2 x RJ45 GigaLAN : |
| | Realtek RTL8111E (support PXE boot), 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 |
| DC 100/100 | 1 x RS422/485 on terminal block |
| RS422/485 | Up to 1 Mbit/s (theor. 12 MBit/s). PS422 Full Duploy, PS425 has made configured by DIP quitsh |
| | RS422 Full-Duplex, RS485 bus mode configured by DIP switch. RS485 Automatic Transceiver control. |
| | Signals on Terminal Block. |
| HD-Audio | Line-in (Mic-in) |
| - HD-Audio | Line-in (Mic-in) Line-out ear-jet connectors |
| Digital I/O | Terminal Blocks on Top and Bottom side |
| Digital I/O | 4 x Output |
| | 4 x Input |
| | 2 x Counter |
| | 2 x ADC |
| | 1 x I ² C |
| | |

| Power Supply Power Input Power Consumption Environment Operating Temp. Storage Temp. Storage Temp. Ozo* to + 80°C Supported OS Microsoft Linux Kernel 2.6 / 3.x Approvals EMC Environment Ordering Information Art. No. Product Name Packing List Packing List **RISE 5300 Embedded System** **Terminal blocks for Digital-I/O and Power supply** **CD-ROM with English documentation, drivers and tools** | | |
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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 and Via's Nano 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 and CAN bus to match different industrial application requests.

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