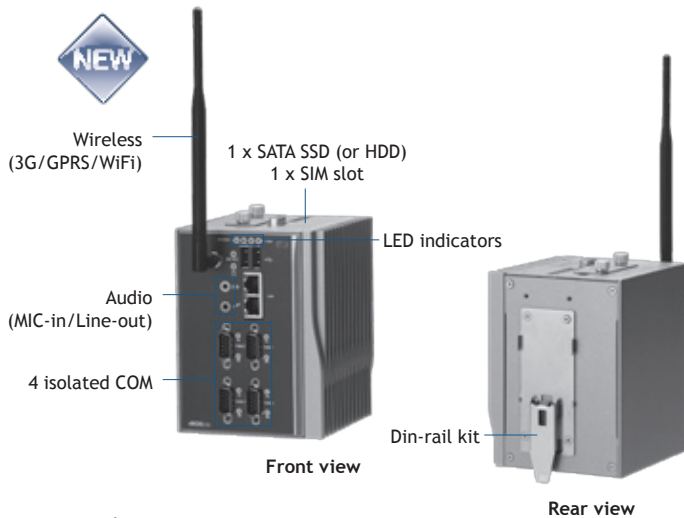


rBOX111-4COM

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT Chipset, 4 Isolated COM, SATA SSD, Audio and RTC



Features

- Fanless and cableless design
- Supports Intel® Atom™ processor Z510 PT 1.1 GHz or Z520 PT 1.33 GHz
- Wide temperature operation of -40°C - +70°C
- 4 isolated COM ports
- 2 isolated 10/100/1000Mbps Ethernet
- 2 watchdog timer
- RTC Battery function
- LED indicators
- 1 wireless (3G or GPRS or Wifi)
- SNMP V1/V2c
- Supports 1 x 2.5" SATA SSD (or HDD)
- Support one CompactFlash™, one SD card (optional)
- 2 power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package

Introduction

rBOX111-4COM Din-rail fanless embedded field controller supports extra low power Intel® Atom™ processors Z510PT and Z520PT with extended temperature range of -40°C to 70°C for use in extreme operating environments.

To prevent ESD and over-voltage, this super compact-size rBOX111-4COM is equipped with 4 isolated RS-232/422/485, 2 isolated 10/100/1000Mbps Ethernet for offering magnetic isolation protection. Two power paths input minimize the risk of data loss in the event of a single power failure. Powered by IP30 housing,

wide operating temperature range and Safety/EMI/EMS compliance, rBOX111-4COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more.

The ready-to-run rBOX111-4COM equipped with AXView monitoring software is a total solution for power plant automation, facility monitoring systems, intelligent transportation systems, and more.

Specifications

Standard Color	Sliver-Black
Construction	Extruded aluminum and heavy-duty steel, IP30
CPU	Intel® Atom™ processor Z510 PT 1.1 GHz or Z520 PT 1.33 GHz
System Board	RM820
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB
System I/O Outlet	Serial Port 4 x RS-232/422/485 (COM 1-4) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15 KV Magnetic isolation protection 2KV COM 1 & COM 2 speed up to 115.2kbps COM 3 - COM 4 serial port speed up to 921.6kbps
LAN	2 x 10/100/1000Mbps Ethernet Magnetic isolation protection 1.5 KV
USB	2 x USB2.0 USB power distribution control by software
Audio	1 x Audio (Line-in/Line-out)
RTC	Battery onboard Gold capacity onboard -100% maintenance free battery
VGA	1 x DB15 connector
Power Input	2 x DC power input with terminal block
Alarm Contact	One relay output with current 0.5A @30VDC
Wireless	1 x Mini Card - Supports USB or PCIe - 3G or GPRS or Wifi 1 x SIM socket onboard

Watchdog Timer	2 WDT WDT 1: one step is 1 sec, 255 levels WDT 2: one step is 250ms, 255 levels
LEDs	System Power, Alarm, Ready/Active, COM (TXD,RXD) Alarm DC PWR1 or PWR2 is lost (default) User define event
Storage	Supports 1 x 2.5" SATA SSD or HDD Supports 1 x CompactFlash™ Supports 1 x SD card up to 32 GB (optional)
Installation	Din-rail, wall mount
Power Supply	2 power paths Power Input Range 12-48VDC Power Protection DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
Operating Temperature	-40°C - +70°C (-40°F - +158°F)
Storage Temperature	-45°C - +85°C (-49°F - +185°F)
Humidity	5% - 95%
Weight (net/gross)	TBD
Dimensions	TBD
EOS Support	XPE, WinCE, Linux, Windows® 7
ISO	Manufactured in an ISO9001 facility
Safety Compliance	UL508 UL60950-1 EN60950-1 IEC60950-1

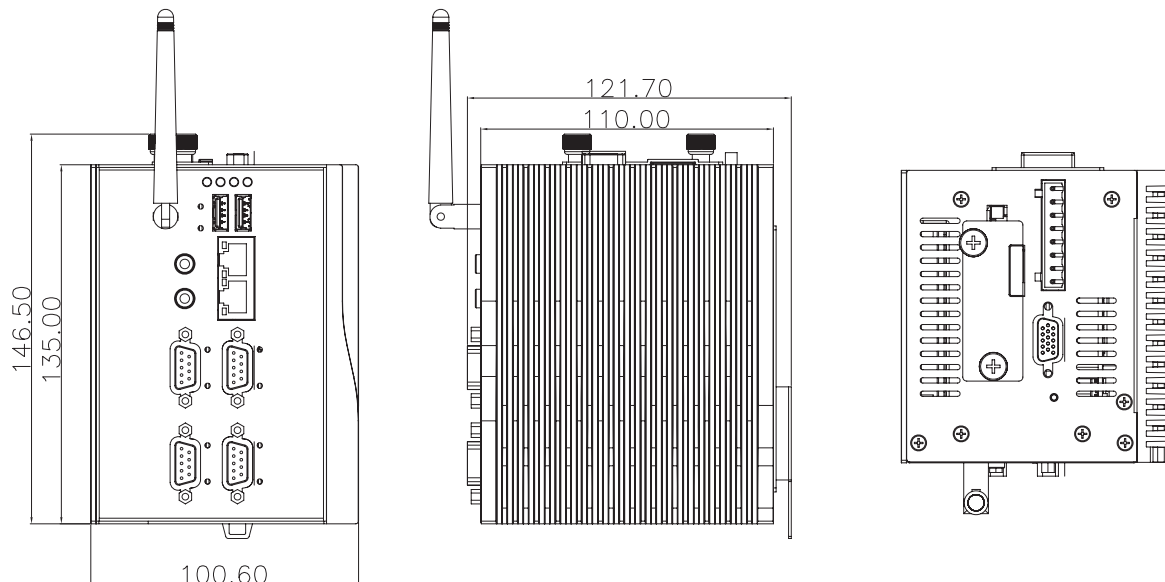
EMI Compliance	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3
EMS Compliance	EN61000-6-2 EN61000-4-2 (ESD standards) * Contact: +/- 6 KV; criteria B * Air: +/- 8 KV; criteria B EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000 MHz; 80% AM criteria A EN61000-4-4 (burst standards) * Signal ports: +/- 2 KV; criteria B * DC power ports: +/- 2 KV; criteria B EN61000-4-5 (surge standards) * Signal ports: +/- 1 KV; line-to-line; criteria B * DC power ports: +/- 0.5 KV; line-to-earth; criteria B EN61000-4-6 (induced RFI standards) * Signal ports: 10 Vrms @ 0.15 - 80 MHz; 80% AM criteria A * DC power ports: 10 Vrms @ 0.15 - 80 MHz; 80% AM criteria A EN61000-4-8 (magnetic field standards) * 30 A/m @ 50, 60 Hz; criteria A
Environmental Test Compliance	IEC60068-2-6 Fc (vibration resistance) 5 g @ 10 - 150 Hz, amplitude 0.35 mm (operation/storage/transport) IEC60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC60068-2-32 Ed (free fall) 1 M (3.281ft)

Ordering Information

Standard	
rBOX111-4COM-FL 1.1G	Robust Din-rail fanless embedded system with Intel® Atom™ processor Z510PT 1.1 GHz and 4 isolated COM ports (-40°C - +70°C)
rBOX111-4COM-FL 1.33G	Robust Din-rail fanless embedded system with Intel® Atom™ processor Z520PT 1.33 GHz and 4 isolated COM ports (-40°C - +70°C)
Optional	
DDR2 SODIMM	1 GB - 2 GB (with W.T. memory)
DDR2 SODIMM	1 GB - 2 GB (with 0°C - +85°C memory; operating temperature: 0°C - +70°C)
CompactFlash™	2 GB or above (with W.T. CF)
Wall mount kit	
Wireless (3G or GPRS or Wifi) module for rBOX series	

*Specifications and certifications are based on options and may vary.

Dimensions



Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories