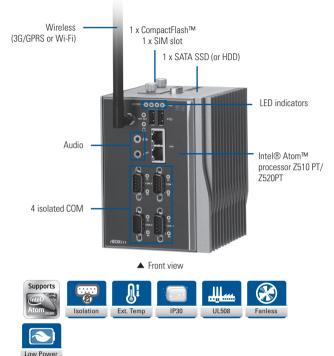
rBOX111-4COM

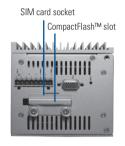
Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT , 4 Isolated COM, SATA SSD, Audio and RTC



Features

- Fanless and cableless design
- Wide temperature operation of -40°C ~ +70°C
- 4 isolated COM ports
- 2 isolated 10/100/1000Mbps Ethernet port
- Supports one x 2.5" SATA SSD (or HDD) & one x CompactFlash
- R&TTE cireless certification
- EN50121-4 compliance for railway application
- SNMP V1/V2c
- 2 power paths with terminal block and 12-48VDC
- Supports AXView remote monitoring software package





A Rear view

Easy-to-access interface

Introduction

The rB0X111-4C0M 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. In addition, the RTC battery (battery onboard & gold-capacity onboard) reduces maintenance efforts and is ideally suited to vibration environment. Powered by IP30 housing, wide operating temperature range and Safety/ EMI/EMS compliance, the rBOX111-4COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more.

The rBOX111-4COM has passed heavy industrial CE and FCC part-18 testing and obtained R&TTE wireless certification, besides, also pre-test ok EN50121-4 to provide high operational reliability and stability.

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

Specifications

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Standard Color	Sliver-Black	
Construction	Extruded aluminum and heary-duty steel, IP30	
CPU	Intel® Atom™ processor Z510PT 1.1 GHz or Z520PT 1.33 GHz	
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB	
System I/O Outlet	Serial Port	4 x Isolated 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

System I/O Outlet	LAN	2 x 10/100/1000Mbps Ethernet	
		Magnetic isolation protection 1.5 KV	
	USB	2 x USB 2.0	
		USB power distribution control by	
		software	
	Audio	1 x Audio (Line-in/Line-out)	
	RTC	Battery onboard &	
		Gold capacity onboard (1st backup	
		battery when power shut-down)	
	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 - 3G/GPRS or Wi-Fi	
		- Supports USB interface on 3G/GPRS supports PCIe interface on Wi-Fi 1 x SIM socket (Easy-to-access)	
Watchdog Timer	2 WDT		
Watehoog filler		is 1 sec, 255 levels	
	WDT 1: 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™ (Easy-to-access)		
	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 Input Rati	ng 12-48VDC, 1.99-0.52A	

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* All specifications and photos are subject to change without notice

Specifications

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	10% ~ 95%	
Weight (net/gross)	1.5 kg (3.3 lb)/1.88 kg (1.14 lb)	
Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)	
EOS Support	XPE, WinCE, Linux support package, Windows® 7 Embedded	
ISO	Manufactured in an ISO9001 facility	
Safety	Heavy Industrial CE, including:	
	EN60950-1, IEC60950-1	
Safety Compliance	UL60950-1, UL508	
EMI	FCC Part 18	
	Heavy Industrial CE, including:	
	EN61000-6-4, EN61000-3-2, EN61000-3-3	
EMS Compliance	EN50121-4 (Railway application)	
EMS	Heavy Industrial CE, including:	
	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	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)
R&TTE Wireless	rBOX111 with PHS8-P 3G module obtain R&TTE Wireless
Certificate	Certification, including:
	ETSI EN 301 489-1 V1.9.2:2011-09
	ETSI EN 301 489-7 V1.3.1:2005-11
	ETSI EN 301 489-24 V1.5.1:2010-10
	EN 55022:2010,Class B
	EN 61000-3-2:2006+A1:2009+A2:2009 and
	EN 61000-3-3:2008
	EN 61000-4-2:2009 / EN 61000-4-3:2006+A1:2008+A2:2010 /
	EN 61000-4-4:2004:A1:2010 / EN 61000-4-6:2009 /
	EN 61000-4-5:2006 / EN 61000-4-11:2004
	ETSI EN 301 511 V9.0.2:2003-03
	TS 151 010-1
	ETSI EN 301 908-1 V5.2.1:2011-05
	ETSI EN 301 908-2 V5.2.1:2011-07

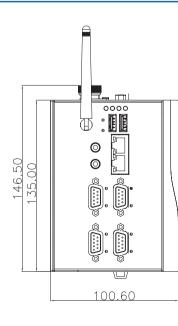
Ordering Information

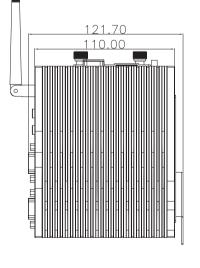
Standard	
rBOX111-4COM- FL1.1G-DC	Robust din-rail fanless embedded system with Intel® Atom [™] processor Z510PT 1.1 GHz and 4 isolated COM ports (-40°C ~ +70°C)
rBOX111-4COM- FL1.33G-DC	Robust din-rail fanless embedded system with Intel® Atom [™] processor Z520PT 1.33 GHz and 4 isolated COM

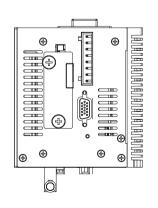
ports (-40°C ~ +70°C)

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)
2.5" SATA SSD or HDD	
Wall mount kit	
Wireless (3G/GPRS or Wi	-Fi) module for rBOX series
*Specifications and certif	ications are based on options and may vary.

Dimensions







С Backplanes



Power Supplies



Peripherals & Accessories

* All specifications and photos are subject to change without notice.

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Systems

Embedded Systems for

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Embedded Field Controllers

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Industrial

Firewall

Digital Signage Solutions

Ó Embedded MicroBoxes

O

Industrial Barebone Systems

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Chassis