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rBOX101-4COM

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





Rear view

Features

Fanless operation

- - UL508







- Wide temperature operation of -40°C ~ +70°C
- Supports 4 isolated COM ports, 2 USB ports,
- Supports one isolated 10/100/1000Mbps & one isolated 10/100Mbps Ethernet
- SNMP V1/V2c
- Support one CompactFlash™
- Two power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package

Introduction

rBOX101-4COM 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 rBOX101-4COM is equipped with four isolated RS-232/422/485, one isolated 10/100/1000Mbps Ethernet & one isolated 10/100Mbps 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, rBOX101-4COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more.

The ready-to-run rBOX101-4COM 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			Power Consumption	With no load on 2 USB ports
Construction	Extruded aluminum and heary-duty steel, IP30			(COM port link up)	1.05A @ 12V, 12.6W
CPU	Intel® Atom™ processor Z510 PT (1.1 GHz) or Z520 PT (1.33 GHz)				0.53A @ 24V, 12.72W
System Board	RM820				0.36A @ 36V, 12.96W
System Memory	1 x 200-pin DDR2 SO-DIMM max. up to 2 GB				0.28A @ 48V, 13.44W
System I/O Outlet	4 x isolated RS-232/422/485 (COM 1 ~ 4)				With full load on 2 USB ports
	1 x isolated 10/100/1	000Mbps Ethernet			1.48A @ 12V, 17.76W
	1 x isolated 10/100M	ops Ethernet			0.74A @ 24V, 17.76W
	2 x USB 2.0				0.50A @ 36V, 18W
	1 x VGA				0.38A @ 48V, 18.24W
	1 x DC power input with terminal block		Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	
Watchdog Timer	255 levels, 0 ~ 255 sec.		Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)	
Storage	Supports 1 x CompactFlash™		Humidity	5% ~ 95%	
Installation	Din-rail		Weight (net/gross)	1.38 kg (3 lb)/1.72 kg (3.78 lb)	
Power Supply	2 power paths		Dimensions	81 mm (3.18") (W) x	(110 mm (4.33") (D)
	Power Input Range	12-48VDC		x 135 mm (5.31") (H)	
	Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection	EOS Support	XPE, WinCE, Linux, Windows® 7	
			ISO	Manufactured in an ISO9001 facility	
			Safety	UL508	
			Compliance	UL60950-1	
				EN60950-1 IEC60950-1	
			EMI	FCC part 15, class A	1
			Compliance	EN61000-6-4	
				* EN55022	
				* EN61000-3-2	
				* EN61000-3-3	



Industrial & Embedded Computers

EMS	EN61000-6-2			
Compliance	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)			
Compliance	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	
rBOX101-4COM-FL	101-4COM-FL Fanless embedded system with Intel® Atom	
1.1G	processor Z510PT 1.1 GHz	
rBOX101-4COM-FL	Fanless embedded system with Intel® Atom™	
1.33G	processor Z520PT 1.33 GHz	
	Optional	
DR2 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™	npactFlash™ 1 GB or above (with W.T. CF)	

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Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

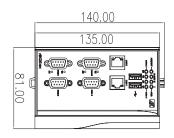
> Industrial Chassis

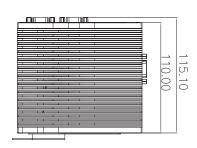
Backplanes

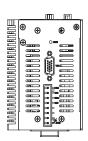
Power Supplies

Peripherals 8 Accessories

Dimensions







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