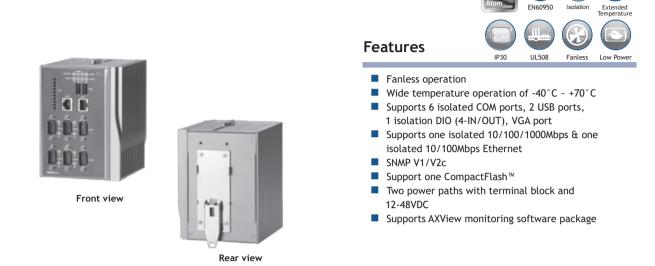
rBOX101-6COM

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT Chipset and 6 Isolated COM



Introduction

rBOX101-6COM 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 rBOX101-6COM is equipped with six isolated RS-232/422/485, one isolated 10/100/1000Mbps Ethernet & one isolated 10/100Mbps Ethernet and one isolated DIO port 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, rBOX101-6COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more.

The ready-to-run rBOX101-6COM equipped with AXView monitoring software is a total solution for power plant automation, facility monitoring systems, intelligent transportation systems, and more.

* EN55022 * EN61000-3-2 * EN61000-3-3

Specifications

Standard Color	Sliver-Black			Power Consumption	With no load on 2 USB ports:	
Construction	Extruded aluminum a	nd 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-I	DIMM max. up to 2 GB			0.28A @ 48V, 13.44W	
System I/O Outlet	6 x isolated RS-232/4	22/485 (COM 1~6)			With full load on 2 USB ports	
	1 x isolated 10/100/1	000Mbps Ethernet			1.48A @ 12V, 17.76W	
	1 x isolated 10/100Mb	ps Ethernet			0.74A @ 24V, 17.76W	
	2 x USB 2.0				0.50A @ 36V, 18W	
	1 x isolated DIO (4 in	'out)		0.38A @ 48V, 18.24W		
	1 x VGA		Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)		
	1 x DC power input w	ith terminal block	Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)		
Watchdog Timer	255 levels, 0 ~ 255 sec.		Humidity	5% ~ 95%		
Storage	Supports 1 x CompactFlash™		Weight (net/gross)	1.9 kg (4.18 lb)/ 2.24 kg (4.93 lb)		
Installation	Din-rail		Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D)		
Power Supply	2 power paths			x 135 mm (5.31") (H)		
	Power Input Range	12-48VDC	EOS Support	XPE, WinCE, Linux, Windows [®] 7		
	Power Protection	DC Version:	ISO	Manufactured in an ISO9001 facility		
		OVP (over voltage protection)	Safety	UL508		
		UVP (under voltage protection)	Compliance	UL60950-1 EN60950-1		
		Reverse protection				
				IEC60950-1		
			EMI	FCC part 15, class A		
			Compliance	EN61000-6-4		

Ordering Information

Standard						
rBOX101-6COM-FL	Fanless embedded system with Intel [®] Atom™					
1.1G						
rBOX101-6COM-FL Fanless embedded system with Intel® Atom™						
1.33G	processor Z520PT 1.33 GHz					
	Optional	Systems fo				
DDR2 SODIMM	1 GB ~ 2 GB (with W.T. memory)					
DDR2 SODIMM	1 GB ~ 2 GB (with 0°C ~ +85°C memory;	Embedded				
	operating temperature: 0°C ~ +70°C)					
CompactFlash™	1 GB or above (with W.T. CF)	Field Controllers				
*Specifications and cer	tifications are based on options and may vary.					

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power

Dimensions

Environmental Test

Compliance

EMS

Compliance

EN61000-6-2

criteria A

criteria A

storage/transport)

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

* DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM

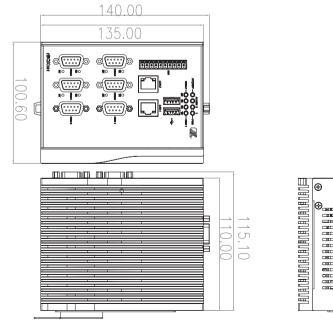
EN61000-4-6 (induced RFI standards) * Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM

EN61000-4-8 (magnetic field standards) * 30 A/m @ 50, 60 Hz; criteria A

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;

IEC60068-2-32 Ed (free fall) 1 M (3.281ft)



* All specifications and photos are subject to change without notice. 264 © 2012 Axiomtek Co., Ltd. All rights reserved.

.64