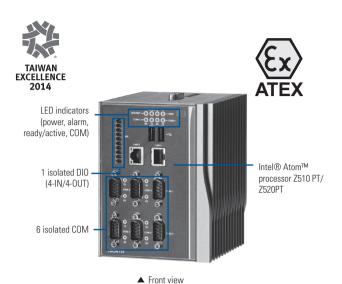
rBOX101-6COM(ATEX)

ATEX Anti-Explosion Certified Robust Din-rail Fanless Embedded System



















Introduction

The rBOX101-6COM(ATEX) 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(ATEX) 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, the rBOX101-6COM(ATEX) is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more.

The ready-to-run rB0X101-6COM(ATEX) equipped with AXView remote 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 heary-duty steel, IP30
CPU	Intel® Atom™ proces	ssor Z510PT 1.1 GHz or Z520PT 1.33 GHz
System Memory	1 x 200-pin DDR2 S0	O-DIMM max. up to 2 GB
System I/O Outlet	Serial Port	6 x Isolated RS-232/422/485 (COM 1-6) 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 6 serial port speed up to 921.6kbps
	LAN	1 x 10/100/1000Mbps Ethernet 1 x 10/100Mbps Ethernet Magnetic isolation protection 1.5 KV
	USB	2 x USB 2.0 USB power distribution control by software

Features

- ATEX anti-explosion type "nA" zone 2 group II Certification
- Fanless and cableless design
- Intel® Atom™ processor Z510PT 1.1 GHz or Z520PT 1.33 GHz
- Wide temperature operation of -40°C ~ +70°C
- 6 isolated COM ports, 1 isolation DIO (4-IN/4-OUT)
- 2 isolated Ethernet ports
- 2 watchdog timer
- LED indicators
- SNMP V1/V2c
- Supports one CompactFlash™, one SD card (optional)
- 2 power paths with terminal block and 12-48VDC
- Supports AXView remote monitoring software package



System I/O Outlet	DIO	1 x DIO (4-IN/4-OUT) DI: Input channels : 4, source type Input voltage : 0 to 30VDCDigital input levels for dry contacts : -Logic level 0: close to GND -Logic level 1: open Digital input levels for wet contacts : -Logic level 0: +10V to +24V (DI to COM-) -Logic level 1: +3V max. D0 : Output channels : 4, sink type Output current: Max. 200 mA per channel
		On-state voltage : 24VDC nominal, open collector to 30V Optical isolation protection 3 KV
	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
Watchdog Timer		is 1 sec, 255 levels is 250ms, 255 levels
LEDs	System	Power, Alarm, Ready/Active, COM (TXD,RXD)
	Alarm	DC PWR1 or PWR2 is lost (default) User define event

Specifications

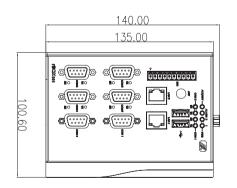
Storage	Supports 1 x Compa		
		d up to 32 GB (optional)	
Installation	Din-rail, wall mount		
Power Supply	2 power paths		
	Power Input Range	12-48VDC	
	Power Input Rating	12-48VDC, 1.5-0.4A	
	Power Protection	DC Version:	
		OVP (over voltage protection)	
		UVP (under voltage protection)	
		Reverse protection	
Operating Temperature	-40°C ~ +70°C (-40°	· · · · · · · · · · · · · · · · · · ·	
Storage Temperature	-45°C ~ +85°C (-49°	F ~ +185°F)	
Humidity	10% ~ 95%		
Weight (net/gross)	1.9 kg (4.18 lb)/ 2.24	1 kg (4.93 lb)	
Dimensions	100.6 mm (3.96") (W (H)	/) x 110 mm (4.33") (D) x 135 mm (5.31")	
EOS Support	XPE, WinCE, Linux s Embedded	upport package, Windows® 7	
ISO	Manufactured in an	ISO9001 facility	
Anti-Explosive	ATEX Anti-Explosive Type "nA" Zone 2 Group II Certification		
	Ex Marking :		
	Certificate No.: TUV	14 ATEX 7480 X	
Safety	UL508, UL60950-1		
Compliance	Heavy Industrial CE,	•	
EN 41	EN60950-1, IEC6095	DU- I	
EMI Compliance	FCC Part 18 Heavy Industrial CE,	including	
Compilance		000-3-2, EN61000-3-3	
FMS	EN50121-4 (Railway		
Compliance	Heavy Industrial CE,		
Compilation	EN61000-6-2		
	EN61000-4-2 (ESD standards)		
	* Contact: +/- 6 KV; criteria B		
	* Air: +/- 8 KV; crite		
	EN61000-4-3 (radiat	•	
	* 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		
		/- 0.5 KV; line-to-earth; criteria B	

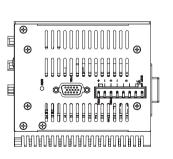
	EN61000-4-6 (induced RFI standards)
	* Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A
	* DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A
	EN61000-4-8 (magnetic field standards)
	* 30 A/m @ 50, 60 Hz; criteria A
Environmental Test	IEC60068-2-6 Fc (vibration resistance) 5 g @ 10 ~ 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)

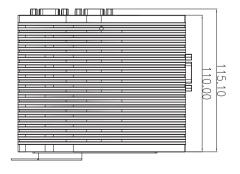
Ordering Information

rBOX101-6COM- FL1.1G-DC (ATEX)	ATEX anti-explosion certified robust din-rail fanless embedded system with Intel® Atom™ processor Z510PT
TET.TG-DG (ATEX)	1.1 GHz, ATEX and 6 isolated COM ports (-40°C ~ +70°C)
rBOX101-6COM- FL1.33G-DC (ATEX)	ATEX anti-explosion certified robust din-rail fanless embedded system with Intel® Atom™ processor Z520PT 1.33 GHz and 6 isolated COM ports (-40°C +70°C)
Optional DDR2 SODIMM	1 GB ~ 2 GB (with W.T. memory)
•	1 GB ~ 2 GB (with W.T. memory) 1 GB ~ 2 GB (with 0°C ~ +85°C memory; operating temperature: 0°C ~ +70°C)
DDR2 SODIMM	1 GB ~ 2 GB (with 0°C ~ +85°C memory; operating

Dimensions







Overview



Embedded Systems



Embedded Systems for Transportation



Embedded Field Controllers



Industrial Firewall



Digital Signage Solutions



Embedded



Barebone Systems



Industrial Chassis



Backplanes



Supplies



Peripherals & Accessories