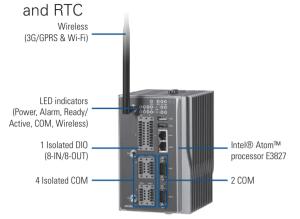
rBOX510-6COM

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor E3827 (1.75 GHz), 6 COM, SATA SSD, DIO, 2 GbE LANs











▲ Front view







Specifications

xtruded aluminum	and heavy-duty steel, IP30
ntel® Atom™ Proc	essor E3827 (1.75GHz) Dual Core
CEM840	
DDR3L 4GB onboard	1
AMI UEFI BIOS	
Serial Port	2 x RS232/422/485 (COM1-2, w/o Isolation), 4 x RS232/422/485 (COM3-6, default w/Isolation) 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
JSB	1 x USB 3.0 & 1 x USB 2.0 USB power distribution control by software
RTC	Battery onboard & Gold capacity onboard (1st backup battery when power shut-down)
Storage	Supports 1 x 2.5" SATA SSD/HDD (default) or 1 x mSATA (by BIOS selectable) Supports 1 x CompactFlash™ (easy-to-acess)
_AN	2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV
/GA	1 x DB15 connector
Power Input	1 x DC power input with terminal block
	ntel® Atom™ Proc CEM840 DDR3L 4GB onboard AMI UEFI BIOS Serial Port USB USB USB USB USB USB USB US

Features

- Fanless and cableless design
- Supports Intel® Atom™ processor E3827 (1.75GHz) Dual Core
- Wide temperature operation of -40°C ~ +70°C
- 4 isolated RS-232/422/485 COM ports & 2 RS-232/422/485 COM ports
- 2 isolated 10/100/1000Mbps Ethernet
- 2 watchdog timer
- RTC Battery function
- LED indicators
- 3 wireless (3G/GPRS & Wi-Fi)
- Supports 1 x 2.5" SATA SSD/HDD (or mSATA), 1 CompactFlash™
- Wide range 12-48 VDC-In with terminal block
- Supports AXView 2.0 intelligent embedded monitoring software solution for IoT



	GPRS and Wi-Fi 2 x SIM card socket 3 x Antenna 3 x LED
DIO	1 isolated DIO (8-IN/ 8-OUT) , DI :
	Input channels : 8 source type Input voltage : 0 to 30VDC Digital input Digital input levels for dry/wet contacts DO: Output channels : 8 sink type Output current : Max. 200mA per channel External Voltage:10 to 30 VDC
	Open Collector to 30V
	Optical isolation protection 3 KV
	ep is 1 sec, 255 levels ep is 1 sec/1 min, 255 levels
Power, Alarm, F	Ready/Active, COM, Wireless
12~48V DC-In;± DC Version: OVF	10 % P, UVP, Reverse protection
-40°C ~ +70°C (-40°F ~ +158°F)
-45°C ~ +85°C (-49°F ~ +185°F)
10% ~ 95%	
5g@10~150Hz, transport)	amplitude 0.35mm (operation/storage/
1.5 kg (3.3 lb)/ 1	.88 kg (4.14 lb)
100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H
Windows 7 Emb Linux support pa	pedded ,Windows 8 Embedded ackage
-Local Hardware -Local SRAM Ba -Remote Manag -Store Apps -Service Cloud	ackup
	2 WDT WDT 1: one ste WDT 2: one ste Power, Alarm, I 12~48V DC-In;± DC Version: OVI -40°C ~ +70°C (-45°C ~ +85°C (10% ~ 95% 5g@10~150Hz, transport) 1.5 kg (3.3 lb)/ 1 100.6 mm (3.96" Windows 7 Emt Linux support pr AXView 2.0 Intelligent Embe -Local Hardware -Local Hardware -Local SRAM as -Remote Manag -Store Apps -Service Cloud

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

Specifications

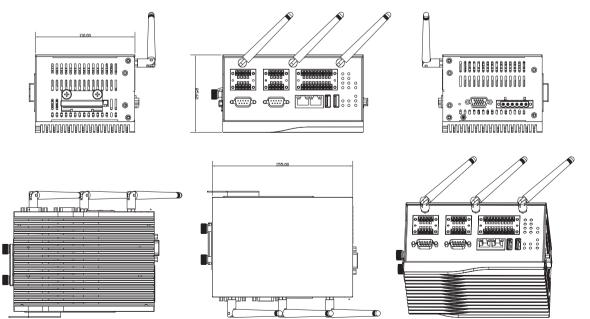
ISO	Manufactured in an ISO9001 facility
Safety	UL60950-1
,	Heavy Industrial CE, including:
	EN60950-1, IEC60950-1
EMI	FCC Part 18
	Heavy Industrial CE, including:
	EN61000-6-4, EN61000-3-2, EN61000-3-3
Compliance	EN50121-4 (Railway application)
EMS	Heavy Industrial CE, including:
	EN61000-6-2
	EN61000-4-2 (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
	*1400~2000 MHz, 3 V/m, 80% AM (1 kHz)
	*2000~2700 MHz, 1 V/m, 80% AM (1 kHz)
	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
	shockpulse; operation); 50 g @ 11 ms (half-sine shock
	pulse;storage/transport)
	IEC60068-2-32 Ed (free fall) 1 M (3.281ft)

Ordering Information

Standard	
rBOX510-6COM-FL1.75G	Robust Din-rail Fanless Embedded system with Intel® Atom $^{\text{M}}$ E3827 1.75 Process Dual Core and 6 COM ports (-40°C \sim +70°C)
Optional	

CompactFlash™ 8 GB or above (with W.T. CF) 2.5" SATA SSD or HDD m-SATA WT Wall Mounting Kit Wireless (3G/GPRS or Wi-Fi) module for rBOX series

Dimensions



Systems Industrial Backplanes Power Supplies Peripherals & Accessories

Overview

Systems

Embedded Systems for Transportation

> 3 Embedded Field Controllers

Industrial Firewall

Embedded MicroBoxes

^{*}Specifications and certifications are based on options and may vary.

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