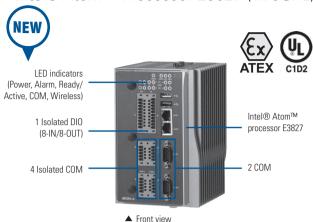
rBOX510-6COM(ATEX/C1D2)

ATEX & CID2 Anti-Explosive Certified Robust Din-rail Fanless Embedded System with Intel® AtomTM Processor E3827 (1.75GHz)



















Specifications

Standard Color	Sliver-Black			
Construction	Extruded alumin	Extruded aluminum and heavy-duty steel, IP30		
CPU	Intel® Atom™	Intel® Atom™ processor E3827 (1.75GHz) dual core		
System Board	CEM840			
System Memory	DDR3L 4 GB onl	DDR3L 4 GB onboard		
BIOS	AMI UEFI BIOS	AMI UEFI BIOS		
System I/O Outlet	Serial Port	2 x RS-232/422/485 (COM 1 ~ 2, w/o Isolation), 4 x RS-232/422/485 (COM 3 ~ 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		
	USB	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 1 x CompactFlash™ (easy-to-acess)		
	LAN	2 10/100/1000 Ethernet Intel® i210IT Magnetic isolation protection 1.5KV		
	VGA	1 x DB15 connector		
	Power Input	1 x DC power input with terminal block		

Features

- ATEX & CID2 anti-explosive certification
- 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 ports
- 2 watchdog timer
- RTC Battery function
- LED indicators
- Supports one 2.5" SATA SSD, 1 CompactFlash™
- Wide range 12-48 VDC-In with terminal block
- Supports AXView 2.0 intelligent remote monitoring & management software solution for IoT application



▲ Rear view

System I/O Outlet	DIO	1 isolated DIO (8-IN/ 8-OUT) ,	
System i/O Oddet	ыо	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	
Watchdog Timer	2 WDT		
	WDT 1: one step is	· · · · · · · · · · · · · · · · · · ·	
		s 1 sec/1 min, 255 levels	
System Indicator	Power, Alarm, Ready/Active, COM, Wireless		
Power Supply	12~48V DC-In;±10		
	DC Version: OVP, UVP, 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%		
Vibration Endurance	5g@10~150Hz, amplitude 0.35mm (operation/storage/transport)		
Weight (net/gross)	1.5 kg (3.3 lb)/ 1.88 kg (4.14 lb)		
Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)		
EOS Support	Windows 7 Embed	ded, Windows 8 Embedded	
	Linux support package		
Remote Management	AXView 2.0		
Software		Management Solution for IoT	
	-Local Hardware Monitoring		
	-Local SRAM Back	- I	
	-Remote Managem	nent	
	-Store Apps		
	-Service Cloud	IDDUC CNIMPT 0 F	
		IDBUS, SNMP Trap & Email	
* W. L. Wide Temperature	All W/T sunnorted i	arnducts have to be sorted by Aviomtek	

^{*} W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Specifications

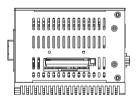
ISO	Manufactured in an ISO9001 facility		
Anti-Explosive	ATEX & C1D2 Anti-Explosive Type "nA" Zone 2 Group II & class I, Division 2 Certification		
Safety	UL60950-1 Heavy Industrial CE, including: EN60950-1, IEC60950-1		
EMI	FCC Part 18 Heavy Industrial CE, including: EN61000-6-4, EN61000-3-2, EN61000-3-3		
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 *DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A		
Environmental Test Compliance	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 shockpulse; operation); 50 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)		

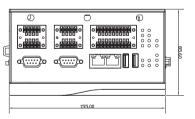
Ordering Information

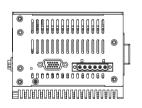
Standard	
rBOX510-6COM(ATEX/ C1D2)-FL1.75G	Robust Din-rail fanless embedded system with Intel® Atom™ E3827 1.75 processor dual core and 6 COM ports (-40°C \sim +70°C)
Optional	
CompactFlash™	8 GB or above (with W.T. CF)

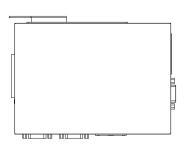
*Specifications and certifications are based on options and may vary.

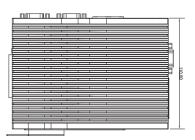
Dimensions

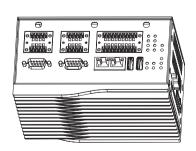












Overview



Embedded Systems



Embedded Systems for Transportation



Embedded Field Controllers



Industrial Firewall



Embedded MicroBoxes



Industrial Barebone Systems



Chassis



Backplanes



Power Supplies



Peripherals & Accessories

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