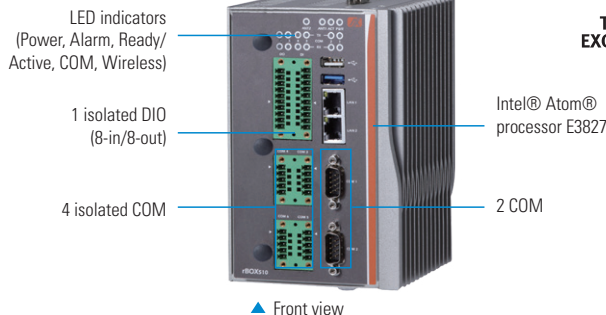


# rBOX510-6COM(ATEX/C1D2)

ATEX & CID2 Anti-Explosion Certified Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827 (1.75 GHz)

## Features

- ATEX & CID2 anti-explosion certification
- Fanless and cableless design
- Intel® Atom® processor E3827 (1.75 GHz) dual core
- Wide operating temperature range from -40°C to +70°C
- 4 isolated RS-232/422/485 ports & 2 RS-232/422/485 ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 2 watchdog timer
- RTC Battery function
- LED indicators
- One 2.5" SATA SSD and one CompactFlash™
- 12 ~ 48 VDC wide range power input with terminal block
- AXView 2.0 intelligent remote monitoring software for IoT



## Specifications

Standard Color	Sliver-Black														
Construction	Extruded aluminum and heavy-duty steel, IP30														
CPU	Intel® Atom® processor E3827 (1.75 GHz) dual core														
System Board	CEM840														
System Memory	DDR3L 4GB onboard														
BIOS	AMI UEFI BIOS														
System I/O Outlet	<table border="0"> <tr> <td>Serial Port</td> <td>2 x RS-232/422/485 (COM 1/2) 4 x Isolation RS-232/422/485 (COM 3 ~ 6) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15KV Magnetic isolation protection 2KV COM 1 &amp; 2 speed up to 115.2kbps COM 3 ~ 6 serial port speed up to 921.6kbps</td> </tr> <tr> <td>USB</td> <td>1 x USB 3.0 &amp; 1 x USB 2.0 USB power distribution control by software</td> </tr> <tr> <td>RTC</td> <td>Battery onboard &amp; Gold capacity onboard (1st backup battery when power shut-down)</td> </tr> <tr> <td>Storage</td> <td>1 x 2.5" SATA SSD 1 x CompactFlash™ (easy-to-access)</td> </tr> <tr> <td>LAN</td> <td>2 x 10/100/1000 Mbps (Intel® i210IT) Magnetic isolation protection 1.5 KV</td> </tr> <tr> <td>VGA</td> <td>1 x DB15 connector</td> </tr> <tr> <td>Power Input</td> <td>1 x DC power input with terminal block</td> </tr> </table>	Serial Port	2 x RS-232/422/485 (COM 1/2) 4 x Isolation RS-232/422/485 (COM 3 ~ 6) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15KV Magnetic isolation protection 2KV COM 1 & 2 speed up to 115.2kbps COM 3 ~ 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	1 x 2.5" SATA SSD 1 x CompactFlash™ (easy-to-access)	LAN	2 x 10/100/1000 Mbps (Intel® i210IT) Magnetic isolation protection 1.5 KV	VGA	1 x DB15 connector	Power Input	1 x DC power input with terminal block
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System I/O Outlet	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
Watchdog Timer	2 WDT WDT 1: one step is 1 sec. 255 levels WDT 2: one step is 1 sec./1 min, 255 levels	
System Indicator	Power, Alarm, Ready/Active, COM, Wireless	
Power Supply	Power Input Range : 12 ~ 48 VDC Power Input Rating : 12 ~ 48 VDC, 1.36 ~ 0.45A Power Protection : DC version, OVP, UVP, Reserve Protection	
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	
Humidity	10% ~ 95%	
Vibration Endurance	5 Gms (10 ~ 150Hz, amplitude 0.35 mm; 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 Embedded, Windows® 8 Embedded Linux support package	
Remote Management Software	AXView 2.0 Intelligent Remote Management Solution for IoT - Local Hardware Monitoring - Local SRAM Backup - Remote Management - Store Apps - Service Cloud - SNMP, MQTT, MODBUS, SNMP Trap & Email	

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

## Specifications

ISO	Manufactured in an ISO 9001 facility
Anti-Explosive	ATEX & C1D2 Anti-Explosive Type "nA" Zone 2 Group II & class I, Division 2 Certification
Safety	UL 60950-1 Heavy Industrial CE, including: EN 60950-1, IEC 60950-1
EMI	FCC Part 18 Heavy Industrial CE, including: EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
EMS	Heavy Industrial CE, including: EN 61000-6-2 EN 61000-4-2 (ESD standards) *Contact: +/- 6 KV; criteria B *Air: +/- 8 KV; criteria B EN 61000-4-3 (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) EN 61000-4-4 (burst standards) *Signal ports: +/- 2 KV; criteria B *DC power ports: +/- 2 KV; criteria B EN 61000-4-5 (surge standards) *Signal ports: +/- 1 KV; line-to-line; criteria B *DC power ports: +/- 0.5 KV; line-to-earth; criteria B EN 61000-4-6 (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 EN 61000-4-8 (magnetic field standards) *30 A/m @ 50, 60 Hz; criteria A
Environmental Test Compliance	IEC 60068-2-6 Fc (vibration resistance) 5 g @ 10 ~ 150 Hz, amplitude 0.35 mm (operation/storage/transport) IEC 60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shockpulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC 60068-2-32 Ed (free fall) 1 M (3.281ft)

## Ordering Information

<b>Standard</b>	rBOX510-6COM-FL-DC	Robust ATEX/C1D2 DIN-rail fanless embedded system with Intel® Atom™ processor E3827 1.75 GHz dual core, DDR3L 4GB onboard and 6 COM (-40°C ~ +70°C)
<b>Optional</b>	CompactFlash™	8 GB or above (with W.T. CF)
	2.5" SATA SSD	
	Wall mount kit	
*Specifications and certifications may vary according to various options.		

## Dimensions

