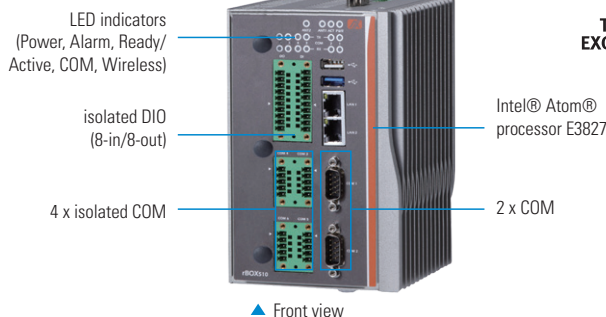


# rBOX510-6COM(ATEX/CID2)

Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827, Isolated COM, LAN and DIO with ATEX/CID2 Certification

## Features

- ATEX & Class I Division 2 (CID2) anti-explosion certification
- Fanless and cableless design
- Intel® Atom® processor E3845 (1.91 GHz)/E3827 (1.75 GHz)
- 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™
- Power input range of 9V to 48V DC with terminal block
- AMS.AXView intelligent remote monitoring software for IIoT



## Specifications

Standard Color	Sliver-black
Construction	Extruded aluminum and heavy-duty steel, IP30
CPU	Intel® Atom® processor E3845 4C@1.91G Hz, TDP: 10W (by request) Intel® Atom® processor E3827 2C@1.75 GHz, TDP: 8W
System Board	CEM840
System Memory	1 x DDR3L-1333 SO-DIMM, 4GB onboard
BIOS	AMI UEFI BIOS
System I/O Outlet	Serial 2 x RS-232/422/485 4 x Isolated RS-232/422/485 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 to 6 serial port speed up to 921.6kbps
RTC	Battery onboard & Gold capacity onboard (1st backup battery when power shut-down)
USB	1 x USB 3.0 1 x USB 2.0 USB power distribution control by software
Storage	1 x Full-size mSATA (occupied 1 PCIe Mini Card slot, mSATA/wireless module either one) 1 x External CFTM (easy-to-use) 1 x 2.5" SATA SSD/HDD
LAN	2 x 10/100/1000 Mbps (Intel® i210-IT) Magnetic isolation protection 1.5 kV
Display	1 x VGA (DB15 connector)
DIO	N/A
CAN	N/A
Power Input	1 x DC power input with terminal block

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
Expansion Interface	1 x Full-size Rev.1.2 PCI Express Mini Card slot: mSATA/USB/PCIe 2 x Full-size Rev.1.2 PCI Express Mini Card slot: USB/PCIe with SIM socket	
Watchdog Timer	255 levels, 1 to 255 sec.	
System Indicator	Power, Alarm, Ready/Active, COM, Wireless	
Power Supply	Power Input Range : 12 to 48 VDC Power Input Rating : 12 to 48 VDC, 1.36 to 0.45A Power Protection : DC version, OVP, UVP, Reserve Protection	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Humidity	10% to 95%	
Vibration Endurance	5 Gms (10 to 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	
Software Support	AMS.AXView	

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

## Specifications

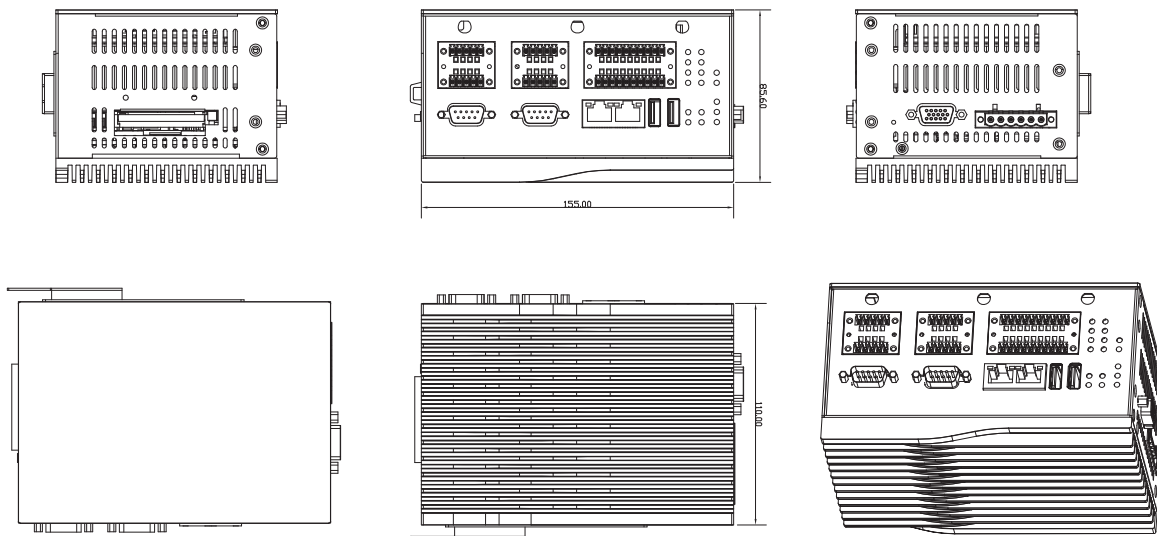
ISO	Manufactured in an ISO 9001 facility
Anti-Explosive	ATEX & Class I Division 2 (CID2) Anti-Explosive Type "nA" Zone 2 Group II & class I, Division 2 Certification
Safety	UL 60950-1 Heavy Industrial CE, including: EN 60950-1, IEC 60950-1
EMI	FCC Part 18 Heavy Industrial CE, including: EN 61000-6-4, 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 to 2000 MHz, 3 V/m, 80% AM (1 kHz) *2000 to 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 to 80 MHz; 80% AM criteria A *DC power ports: 10 Vrms @ 0.15 to 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 to 150 Hz, amplitude 0.35 mm (operation/storage/transport) IEC 60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC 60068-2-32 Ed (free fall) 1 M (3.281ft)

## Ordering Information

Standard	
rBOX510-6COM-FL-DC (ATEX/CID2) (P/N: E26M510101)	Robust ATEX/CID2 DIN-rail fanless embedded system with Intel® Atom™ processor E3827 1.75 GHz dual core, DDR3L 4GB onboard and 6 COM (-40°C to +70°C)
rBOX510-E3845-6COM-FL-DC (CID2) (P/N: by request)	Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3845 (1.91 GHz) quad core and 6 COM ports (-40°C to +70°C)
rBOX510-E3845-6COM-FL-DC (ATEX, by request)	Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3845 (1.91 GHz) quad core and 6 COM ports (-40°C to +70°C)
Optional	
CompactFlash™	8 GB or above (with W.T. CF)
2.5" SATA SSD	
mSATA	
Wall mount kit	

\* Specifications and certifications may vary based on different requirements.

## Dimensions



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[BXNUC9i5QNX1](#) [BKNUC9V7QNX](#) [BKNUC9V7QNX1](#) [2-A0DF-2001](#) [BKCMB1ABB](#) [BKCMB1ABA](#) [EM3000-3845-8-128-WL-U-1](#)  
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