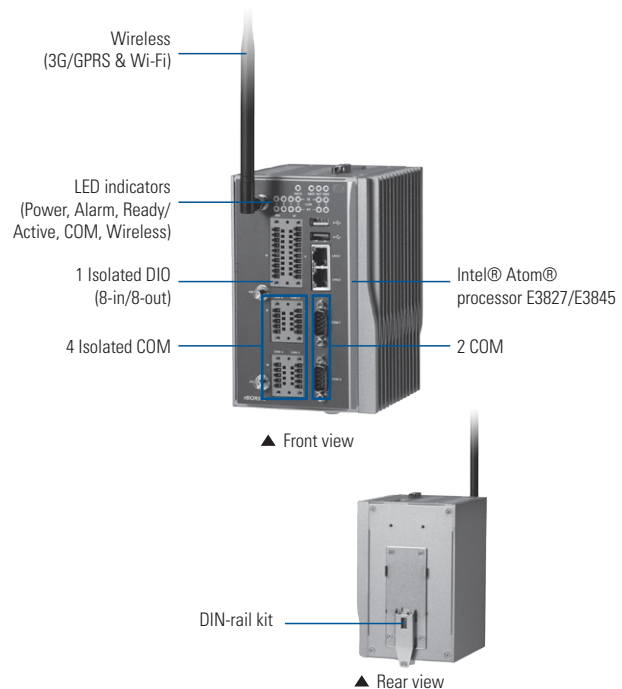


# rBOX510-6COM

Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827 (1.75 GHz)/E3845 (1.91 GHz), 6 COM, SATA SSD, DIO, 2 GbE LAN and RTC

## Features

- 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 COM ports & 2 RS-232/422/485 COM ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 2 watchdog timer
- RTC Battery function
- LED indicators
- 3 wireless (3G/GPRS & Wi-Fi)
- One 2.5" SATA SSD/HDD (or mSATA) and one CompactFlash™
- 12-48 VDC wide range power input with terminal block
- Supports AXView 2.0 intelligent remote monitoring software



## Specifications

Standard Color	Sliver-Black	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Intel® Atom™ processor E3845 4C@1.91 GHz, TDP: 10W (by request) Intel® Atom™ processor E3827 2C@1.75 GHz, TDP: 8W	
System Board	CEM840	
System Memory	DDR3L 4GB onboard	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial Port	2 x RS-232/422/485 (COM1-2) 4 x Isolation RS232/422/485 (COM3-6) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15 KV Magnetic isolation protection 2KV COM 1 & 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 Full-size mSATA (occupied) 1 x PCI Express 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® i210IT) Magnetic isolation protection 1.5KV
	VGA	1 x DB15 connector
	Power Input	1 x DC power input with terminal block
	Wireless	3 x Full size Mini Card slot supports 3G/GPRS and Wi-Fi 2 x SIM card socket 3 x Antenna 3 x LED

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	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 to +70°C (-40°F to +158°F)	
Humidity	10% to 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 Embedded ,Windows 8 Embedded Linux support package	
Software Support	AXView 2.0 Intelligent Embedded 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
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

Standard	
rBOX510-6COM-FL-DC (P/N: E26M510100)	Robust 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 (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)
Optional	
CompactFlash™	8GB or above (with W.T. CF)
2.5" SATA SSD or HDD	
m-SATA WT	
Wall mount kit	
Wireless (3G/GPRS or Wi-Fi) module for rBOX series	
*Specifications and certifications may vary according to various options.	

## Dimensions

