

rBOX5 10-6COM

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

NEW



Specifications

Standard Color	Sliver-Black
Construction	Extruded aluminum and heavy-duty steel, IP30
CPU	Intel® Atom™ Processor E3827 (1.75GHz) Dual Core
System Board	CEM840
System Memory	4GB Onboard DDR3L/1.35V I/O at data rates up to 1066MT/s or 1333MT/s
BIOS	AMI UEFI BIOS
System I/O Outlet	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
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 CF(easy to access), 1 x SATA SSD, 1 X m-SATA (via Mini PCIe slot)
LAN	2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV
VGA	1 x DB15 connector
Power Input	1 x DC power input with terminal block

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
- 2 wireless (3G/GPRS & Wifi or Zigbee)
- SNMP V1/V2c
- Supports 1 x 2.5" SATA SSD, 1 CompactFlash™, 1 m-SATA
- 1 power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package



▲ Rear view

System I/O Outlet	Wireless	2 x Mini Card a.3G/GPRS or Wifi b.Supports USB interface on 3G/GPRS Supports PCIe interface on Wifi 1 x SIM socket (Easy to access) 3 x Antenna 3 x LED
	DIO	1 isolated DIO (4-IN/ 4-OUT) , DI : Input channels : 4 source type Input voltage : 0 to 30VDC Digital input levels for dry contacts : -Logic level 0 : close to GND -Logic level 1 : open Digital input levels for wet contacts : -Logic level 0 : +10V to +24V (DI to COM-) -Logic level 1 : +3V max. DO: Output channels : 4 sink type Output current : Max. 200mA per channel On-stage voltage : 24VDC nominal, Open collector to 30V Optical isolation protection 2 KV
Watchdog Timer	2 WDT WDT 1 : one step is 1 sec, 255 levels WDT 2 : one step is 250ms, 255 levels	
Expansion Slot	N/A	
System Indicator	System : Power, Alarm, Ready/Active, COM, Wireless (3G/GPRS/Wifi/Zigbee)	
Power Supply	One power path, 12~48V DC-In, DC Version: OVP, UVP, Reverse protection	

Specifications

Operating Temperature	-40°C ~ 70°C
Storage Temperature	-40°C ~ 85°C
Humidity	5% ~ 95%
Vibration Endurance	5g@10-150Hz, amplitude 0.35mm (operation/storage/transport)
Weight	1.5 kg
Certification	ATEX Certification, Heavy Industrial CE, FCC Part 18, EN50121-4 pre-test (Railway application) UL60950-1 (compliance) UL508 (compliance)
Dimensions	100 x 155 x 110mm
EOS Support	Windows 7 Embedded within SNMP function Linux support package Axview

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

** XPE: Windows® XP Embedded

Ordering Information

Standard	
rBOX510-6COM-FL1.75G	Robust Din-rail Fanless Embedded system with Intel® Atom™ E3827 1.75 Process Dual Core and 6 COM ports (-40°C ~ +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 Wifi) module for rBOX series	
*Specifications and certifications are based on options and may vary.	

Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories