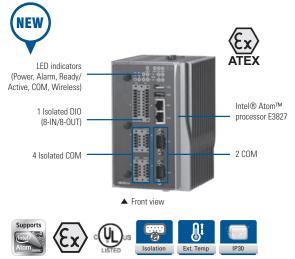
rBOX510-6COM (ATEX/C1D2)

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



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 x 2.5" SATA SSD, 1 CompactFlash™
- Wide range 12-48 VDC-In with terminal block
- Supports AXView 2.0 intelligent embedded monitoring software solution for IoT application



A Rear view

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 s	WDT 1 : one step is 1 sec, 255 levels		
	WDT 2 : one s	WDT 2 : one step is 1 sec/1 min, 255 levels		
System Indicator	Power, Alarm, Ready/Active, COM, Wireless			
Power Supply	12~48V DC-In;	12~48V DC-In;±10 %		
,	DC Version: OV	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 Embedded, Windows 8 Embedded			
	Linux support package			
Remote Management	AXView 2.0			
* W.T.: Wide Temperature	Intelligent Embedded Solution for IoT			
	-Local Hardware Monitoring			
	-Local SRAM Backup			
	-Remote Management			
	-Store Apps			
	-Service Cloud			
		, MODBUS, SNMP Trap & Email		

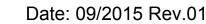
* W.T.: Wide Temperature. All W.T. supported products have to be sorted by AXIOMTEK.

Specifications

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 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 Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	Standard Color	Sliver-Black	
System Board CEM840 System Memory DDR3L 4GB onboard 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 Supports 1 x 2.5" SATA SSD 1 x CompactFlash TM (easy-to-acess) LAN 2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	Construction	Extruded aluminum and heavy-duty steel, IP30	
System Memory DDR3L 4GB onboard 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 0 v com d stribution 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 TM (easy-to-acess) LAN 2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	CPU	Intel® Atom™ Proc	cessor E3827 (1.75GHz) Dual Core
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 Supports 1 x 2.5" SATA SSD 1 x CompactFlash™(easy-to-acess) LAN 2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV	System Board	CEM840	
System I/O Outlet Serial Port 2 x RS232/422/485 (COM1-2, w/o 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/lsolation) 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 921.6kbps USB 1 x USB 3.0 & 1 x USB 2.0 USB 1 x USB 3.0 & 1 x USB 2.0 USB power distribution control by software Gold capacity 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 Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	System Memory	DDR3L 4GB onboar	d
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 Supports 1 x 2.5" SATA SSD 1 x CompactFlash TM (easy-to-acess) LAN 2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	BIOS	AMI UEFI BIOS	
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 Magnetic isolation protection 1.5KV VGA 1 x DB15 connector	System I/O Outlet	Serial Port	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
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 Magnetic isolation protection 1.5KV VGA 1 x DB15 connector		USB	USB power distribution control by
1 x 2.5" SATA SSD 1 x CompactFlash™ (easy-to-acess) LAN 2 10/100/1000 Ethernet Magnetic isolation protection 1.5KV VGA 1 x DB15 connector		RTC	Gold capacity onboard (1st backup
Magnetic isolation protection 1.5KV VGA 1 x DB15 connector		Storage	1 x 2.5" SATA SSD
			Magnetic isolation protection 1.5KV
D I I DO I II I I I I I I I I I I I I I		VGA	
Power Input 1 x DC power input with terminal block		Power Input	1 x DC power input with terminal block



www.ipc2u.ru www.ipc2u.de www.sovio.com



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 EN61000-4-5 (surge standards) * Signal ports: +/- 1 KV; line-to-line; criteria B EN61000-4-5 (surge standards) * Signal ports: +/- 1 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 shock pulse;storage/transport) IEC60068-2-32 Ed (free fall) 1 M (3.281ft)		

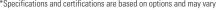
Ordering Information

Standard rBOX51

rBOX510-6COM(ATEX/	Robust Din-rail fanless embedded system with Intel®
C1D2)-FL1.75G	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	
Wall Mounting Kit	
*Specifications and co	rtifications are based on options and may yory













Industrial



Embedded MicroBoxes



Industrial Barebone Systems

Chassis



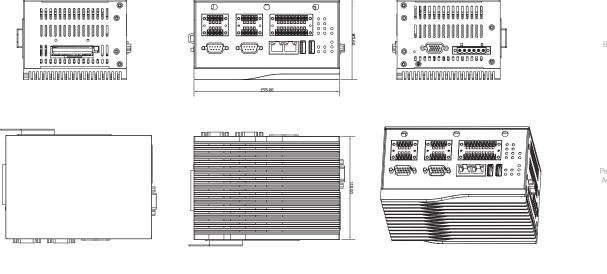
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Power



364

Dimensions



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



Date: 09/2015 Rev.01

