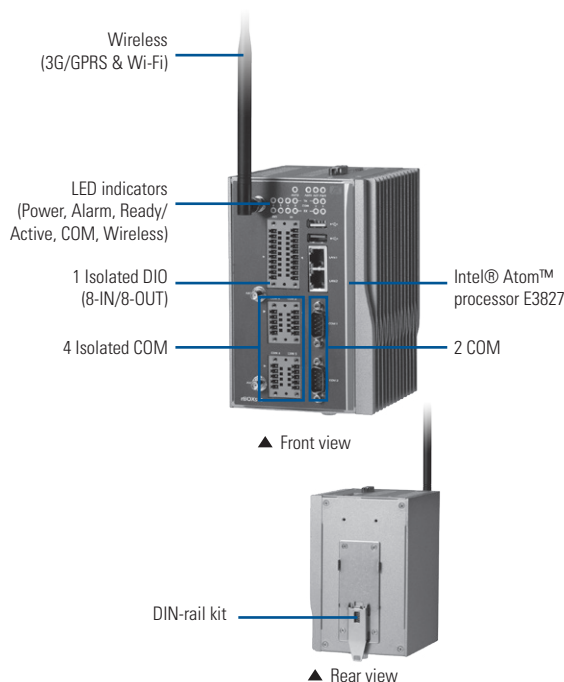


rBOX510-6COM

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

Features

- Fanless and cableless design
- Intel® Atom™ processor E3827 (1.75GHz) dual core
- 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 | Silver-Black | |
| Construction | Extruded aluminum and heavy-duty steel, IP30 | |
| CPU | Intel® Atom™ Processor E3827 (1.75GHz) Dual Core | |
| 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) 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 2.5" SATA SSD/HDD (default) or 1 x mSATA (by BIOS selectable) 1 x CompactFlash™ (easy-to-access) |
| | 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 |

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| System I/O Outlet | 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 |
| | 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 | 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 Software | 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

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|-------------------------------|--|
| 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

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| Standard | |
| rBOX510-6COM-FL-DC | Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3827 1.75 GHz dual core and 6 COM ports (-40°C ~ +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 are based on options and may vary. | |

Dimensions

