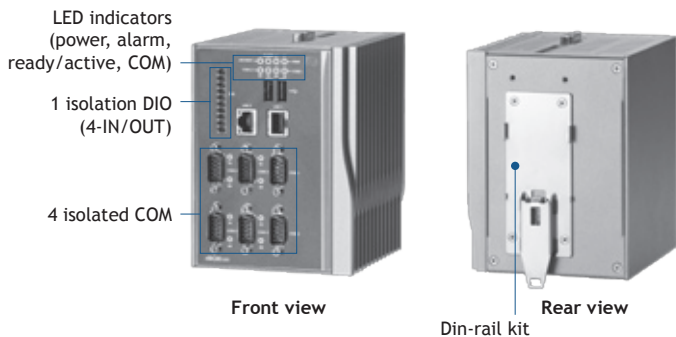


rBOX201-6COM

Robust Din-rail Fanless Embedded System with AMD LX800 + CS5536AF,
6 Isolated COM and 1 Isolated DIO (4-IN/OUT)



Features

- Fanless and cableless design
- Wide temperature operation of -40°C ~ $+70^{\circ}\text{C}$
- Supports 6 isolated COM ports, 1 isolated DIO (4-IN/OUT)
- Supports 2 isolated Ethernet
- 2 watchdog timer
- LED indicators
- Optional 1 wireless (WiFi or 3G)
- SNMP V1/V2c
- Support one CompactFlash™
- 2 power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package

Introduction

rBOX201-6COM cost-effective Din-rail fanless embedded system utilizes the low power AMD LX800 processor and is designed to withstand temperatures ranging from -40°C to $+70^{\circ}\text{C}$ for use in extreme operating environments.

To prevent ESD and over-voltage, this super compact-size rBOX201-6COM is equipped with six isolated RS-232/422/485, two isolated 10/100Mbps Ethernet and one isolated DIO port for offering magnetic isolation protection. Two power paths input minimizes the risk of data loss in the event of a single power failure. IP30 housing, wide operating temperature range and Safety/EMI/EMS compliance,

rBOX201-6COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more. Besides, rBOX201-6COM is also specially designed for remote control/ monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.

The ready-to-run rBOX201-6COM equipped with AXView monitoring software is a total solution for power plant automation, facility monitoring systems, intelligent transportation systems, and more.

Specifications

Standard Color	Sliver-Black	Watchdog Timer	2 WDT WDT 1: one step is 1 sec, 255 levels WDT 2: one step is 250ms, 255 levels
Construction	Extruded aluminum and heavy-duty steel, IP30	LEDs	System Power, Alarm, Ready/Active, COM (TXD, RXD) Alarm DC PWR1 or PWR2 is lost (default) User define event (option)
CPU	AMD LX800 processor	Storage	Supports 1 x CompactFlash™
System Board	RM610	Installation	Din-rail, wall mount
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB	Power Supply	2 power paths Power Input Range 12 - 48VDC Power Protection DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
System I/O Outlet	Serial Port 6 x RS-232/422/485 (COM 1-6) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15 KV Magnetic isolation protection 2KV COM 1 & COM 2 speed up to 115.2kbps COM 3 - COM 6 serial port speed up to 921.6kbps	Operating Temperature	-40°C ~ $+70^{\circ}\text{C}$ (-40°F ~ $+158^{\circ}\text{F}$)
	LAN 2 x 10/100Mbps Ethernet Magnetic isolation protection 1.5 KV	Storage Temperature	-45°C ~ $+85^{\circ}\text{C}$ (-49°F ~ $+185^{\circ}\text{F}$)
	USB 2 x USB2.0 USB power distribution control by software	Humidity	5% ~ 95%
	DIO 1 x DIO (4-IN/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. 200 mA per channel On-state voltage : 24VDC nominal, open collector to 30V Optical isolation protection 3 KV	Weight (net/gross)	1.9 kg (4.18 lb)/ 2.24 kg (4.93 lb)
	VGA 1 x DB15 connector	Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)
	Power Input 2 x DC power input with terminal block	EOS Support	XPE, WinCE, Linux
	Alarm Contact One relay output with current 0.5A @30VDC	ISO	Manufactured in an ISO9001 facility
	Wireless (upon request) 1 x Mini Card (Supports USB only) 1 x SIM socket onboard	Safety Compliance	UL508 UL60950-1 EN60950-1 IEC60950-1
		EMI Compliance	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3

EMS Compliance	EN61000-6-2
	EN61000-4-2 (ESD standards) * Contact: +/- 6 KV; criteria B * Air: +/- 8 KV; criteria B
Environmental Test Compliance	EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000 MHz; 80% AM criteria A
	EN61000-4-4 (burst standards) * Signal ports: +/- 2 KV; criteria B * DC power ports: +/- 2 KV; criteria B
	EN61000-4-5 (surge standards) * Signal ports: +/- 1 KV; line-to-line; criteria B * DC power ports: +/- 0.5 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
	EN61000-4-8 (magnetic field standards) * 30 A/m @ 50, 60 Hz; criteria A
	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 shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport)
	IEC60068-2-32 Ed (free fall) 1 M (3.281ft)

Ordering Information

Standard	
rBOX201-6COM-FL	Robust Din-rail fanless embedded system with AMD LX800 processor and 6 isolated COM ports (-40 °C ~ +70 °C)
Optional	
DDR2 SODIMM	512 MB - 1 GB (with W.T. memory)
CompactFlash™	1 GB or above (with W.T. CF)
Wall mount kit	
Wireless (WiFi or 3G)	upon request

*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

Dimensions

