rBOX201-6COM
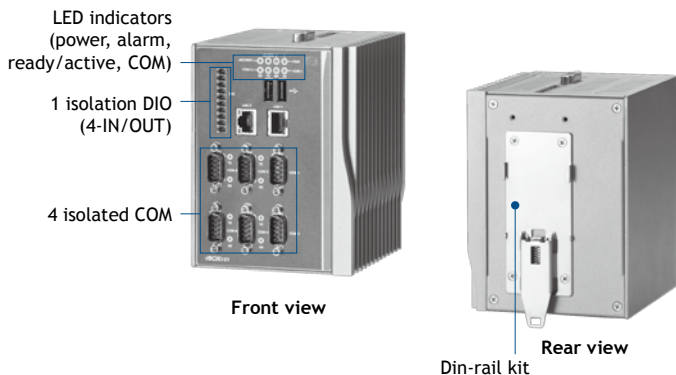
Robust Din-rail Fanless Embedded System with AMD LX800 + CS5536AF, 6 Isolated COM and 1 Isolated DIO (4-IN/OUT)

EN60950 | Isolation | Extended Temperature

IP30 | UL508 | Fanless | Low Power

LED indicators (power, alarm, ready/active, COM)

1 isolation DIO (4-IN/OUT)

4 isolated COM

Front view

Rear view

Din-rail kit

Features

- Fanless and cableless design
- Wide temperature operation of -40°C ~ +70°C
- Supports 6 isolated COM ports, 1 isolated DIO (4-IN/OUT)
- Supports 2 isolated Ethernet
- 2 watchdog timer
- LED indicators
- 1 wireless (3G or GPRS)
- 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°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		
Construction	Extruded aluminum and heary-duty steel, IP30		
CPU	AMD LX800 processor		
System Board	RM610		
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB		
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	
	LAN	2 x 10/100Mbps Ethernet	
		Magnetic isolation protection 1.5 KV	
	USB	2 x USB2.0	
		USB power distribution control by software	
	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	
	VGA	1 x DB15 connector	
	Power Input	2 x DC power input with terminal block	
	Alarm Contact	One relay output with current 0.5A @30VDC	
	Wireless	1 x Mini Card (Supports USB only)	
		1 x SIM card socket onboard	

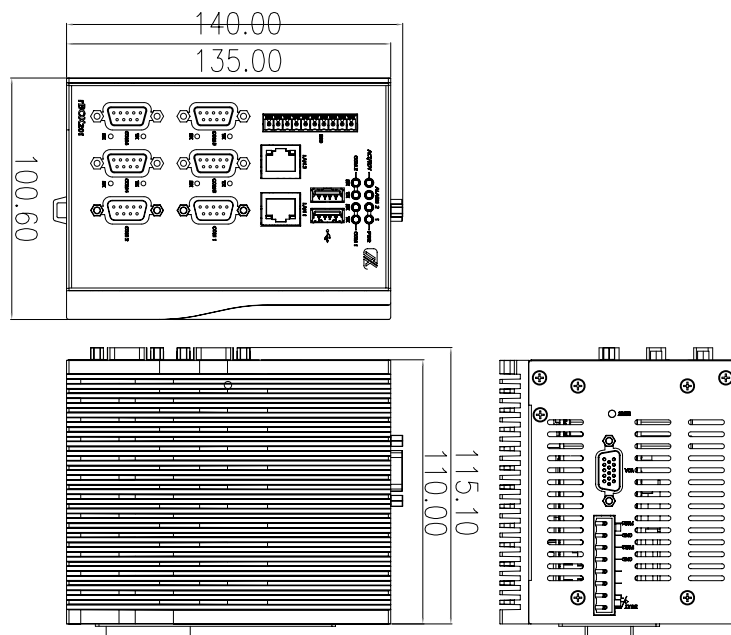| Watchdog Timer	2 WDT	
	WDT 1: one step is 1 sec, 255 levels	
	WDT 2: one step is 250ms, 255 levels	
LEDs	System	Power, Alarm, Ready/Active, COM (TXD, RXD)
	Alarm	DC PWR1 or PWR2 is lost (default) User define event (option)
Storage	Supports 1 x CompactFlash™	
Installation	Din-rail, wall mount	
Power Supply	2 power paths	
	Power Input Range	12 - 48VDC
	Power Protection	DC Version:
		OVP (over voltage protection)
		UVP (under voltage protection)
		Reverse protection
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	
Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)	
Humidity	5% ~ 95%	
Weight (net/gross)	1.9 kg (4.18 lb)/ 2.24 kg (4.93 lb)	
Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)	
EOS Support	XPE, WinCE, Linux	
ISO	Manufactured in an ISO9001 facility	
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	

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

EMS
Compliance
	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
	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

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 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	

*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