rBOX201-4COM

Robust Din-rail Fanless Embedded System with AMD LX800 + CS5536AF
and 4 Isolated COM

EN60950 Isolation Extended Temperature

IP30 UL508 Fanless Low Power

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

4 isolated COM
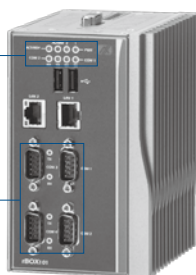
Front view

Din-rail kit   **Rear view**

Features

- Fanless and cableless design
- Wide temperature operation of -40°C ~ +70°C
- Supports 4 isolated COM ports
- 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

rBOX201-4COM 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 rBOX201-4COM is equipped with four isolated RS-232/422/485, two isolated 10/100Mbps Ethernet 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, rBOX201-4COM is

ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more. Besides, rBOX201-4COM 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 rBOX201-4COM 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		Storage	Supports 1 x CompactFlash™
Construction	Extruded aluminum and heary-duty steel, IP30		Installation	Din-rail, wall mount
CPU	AMD LX800 processor		Power Supply	2 power paths
System Board	RM610			Power Input Range 12-48VDC
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB			Power Protection DC Version:
System I/O Outlet	Serial Port	4 x RS-232/422/485 (COM 1~4)		OVP (over voltage protection)
		Interface select by software or BIOS		UVP (under voltage protection)
		Supports Auto Flow Control in RS-485 mode		Reverse protection
		ESD protection 15 KV	Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
		Magnetic isolation protection 2 KV	Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)
		COM 1 & COM 2 speed up to 115.2kbps	Humidity	5% ~ 95%
		COM 3 & COM 4 serial port speed up to 921.6kbps	Weight (net/gross)	1.38 kg (3 lb)/1.72 kg (3.78 lb)
	LAN	2 x 10/100Mbps Ethernet	Dimensions	81 mm (3.18") (W) x 110 mm (4.33") (D)
		Magnetic isolation protection 1.5 KV		x 135 mm (5.31") (H)
	USB	2 x USB2.0	EOS Support	XPE, WinCE, Linux
		USB power distribution control by software	ISO	Manufactured in an ISO9001 facility
	VGA	1 x DB15 connector	Safety	UL508
	Power Input	2 x DC power input with terminal block	Compliance	UL60950-1
	Alarm Contact	one relay output with current 0.5A @30VDC		EN60950-1
	Wireless	1 x Mini Card (Supports USB only)		IEC60950-1
		1 x SIM card socket onboard	EMI	FCC part 15, class A
Watchdog Timer	2 WDT		Compliance	EN61000-6-4
	WDT 1: one step is 1 sec, 255 levels			* EN55022
	WDT 2: one step is 250ms, 255 levels			* EN61000-3-2
LEDs	System	Power, Alarm, Ready/Active, COM (TXD,RXD)		* EN61000-3-3
	Alarm	DC PWR1 or PWR2 is lost (default)		
		User define event (option)		

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

Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories

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	
rBOX201-4COM-FL	Robust Din-rail fanless embedded system with AMD LX800 processor and 4 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.

Dimensions