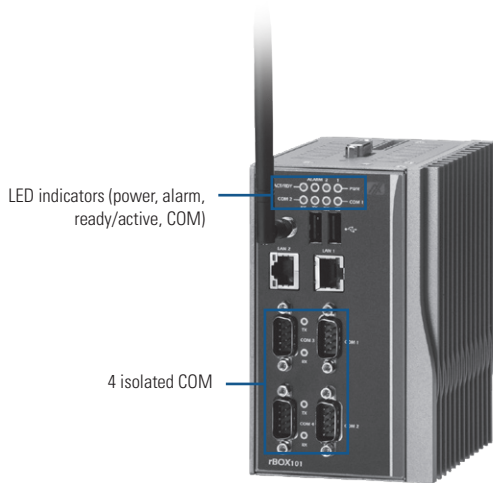


rBOX201-4COM

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



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

4 isolated COM

▲ Front view



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	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	AMD LX800 processor	
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB	
System I/O Outlet	Serial Port	4 x RS-232/422/485 (COM 1~4) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15 KV Magnetic isolation protection 2 KV COM 1 & COM 2 speed up to 115.2kbps COM 3 & COM 4 serial port speed up to 921.6kbps
	LAN	2 x 10/100Mbps Ethernet Magnetic isolation protection 1.5 KV

Features

- Fanless and cableless design
- Supports AMD LX800 processor
- Wide temperature operation of -40°C ~ +70°C
- 4 isolated COM ports
- 2 isolated 10/100Mbps Ethernet
- 2 watchdog timer
- LED indicators
- SNMP V1/V2c
- Supports one CompactFlash™
- 2 power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package



Din-rail kit

▲ Rear view

System I/O Outlet	USB	2 x USB2.0 USB power distribution control by software
	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 (Full size, supports USB only) 1 x SIM card socket onboard Supports 3G/GPRS
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
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)	1.38 kg (3 lb)/1.72 kg (3.78 lb)	
Dimensions	81 mm (3.18") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)	
EOS Support	XPE, WinCE, Linux	
ISO	Manufactured in an ISO9001 facility	

Specifications

Safety Compliance	UL508, UL60950-1 Heavy Industrial CE, including: EN60950-1, IEC60950-1
EMI Compliance	FCC Part 18 Heavy Industrial CE, including: EN61000-6-4, EN61000-3-2, EN61000-3-3
EMS Compliance	EN50121-4 (Railway application) 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 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	
DDR SO-DIMM	512 MB ~ 1 GB (with W.T. memory)
CompactFlash™	2 GB or above (with W.T. CF)
Wall mount kit	
Wireless (3G/GPRS) module for rBOX seriesit	
*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

