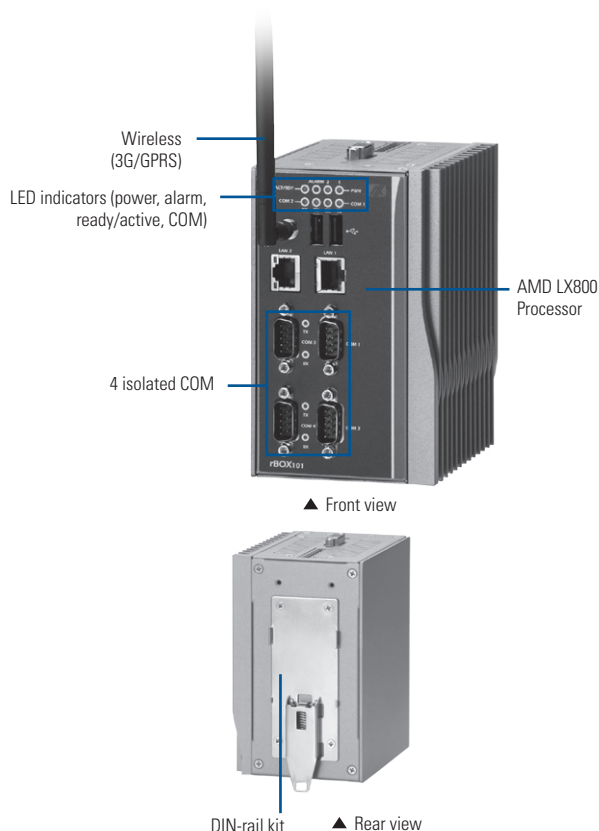# rBOX201-4COM

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

Features

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

AXView

| Isolation | Ext. Temp | IP30 | UL508 | Fanless | Low Power |

Wireless (3G/GPRS)

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

AMD LX800 Processor

4 isolated COM

▲ Front view

DIN-rail kit   ▲ Rear view

Introduction

The 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, the rBOX201-4COM is ideal for intelligent computing and communication solutions in critical environments such as power utility, transportation and more. Besides, the 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 remote 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 Memory	1 x DDR-400 SO-DIMM, up to 1GB
System I/O Outlet	Serial Port	4 x Isolated 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 & 2 speed up to 115.2kbps COM 3 & 4 serial port speed up to 921.6kbps
	LAN	2 x 10/100 Mbps (Davicom DM9102HI) Magnetic isolation protection 1.5 KV

System I/O Outlet	USB	2 x USB 2.0 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 @30 VDC
	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	1 x CompactFlash™	
Installation	DIN-rail, wall mount	
Power Supply	2 power paths	
	Power Input Range	12-48 VDC
	Power Input Rating	12-48 VDC, 1.5-0.4A
	Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	
Humidity	10% ~ 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 support package	

Specifications

ISO	Manufactured in an ISO 9001 facility
Safety Compliance	UL 508, UL 60950-1 Heavy Industrial CE, including: EN 60950-1, IEC 60950-1
EMI Compliance	FCC Part 18 Heavy Industrial CE, including: EN 61000-6-4, EN 61000-3-2, EN 61000-3-3

EMS Compliance	EN 50121-4 (Railway application)
	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
	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	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 shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC 60068-2-32 Ed (free fall) 1 M (3.281ft)

Ordering Information

Standard

rBOX201-4COM-FL-DC	Robust DIN-rail fanless embedded system with AMD LX800 processor and 4 isolated COM ports (-40°C ~ +70°C)

Optional

DDR SO-DIMM	512MB ~ 1GB (with W.T. memory)
CompactFlash™	2GB 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.

Dimensions