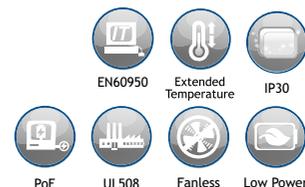
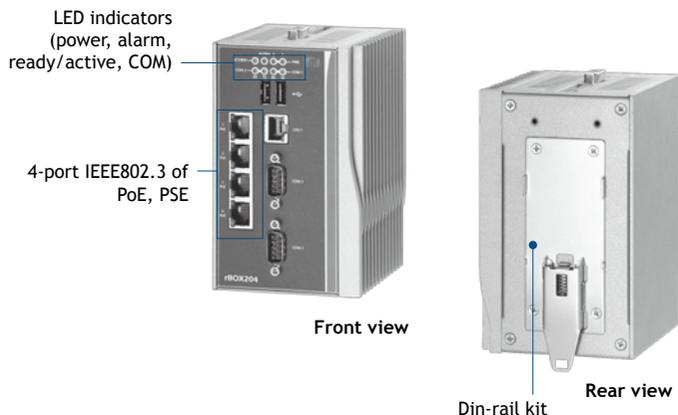


rBOX204

Robust Din-rail Fanless Embedded System with AMD LX800 + CS5536AF and 4-port PoE



Features

- Fanless and cableless design
- Wide temperature operation of $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Supports 4-port IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- Supports 1 isolated Ethernet
- 2 watchdog timer
- LED indicators
- SNMP V1/V2c
- Supports one CompactFlash™
- 2 power paths with terminal block and 48VDC
- Supports AXView monitoring software package

Introduction

rBOX204 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.

The fanless design increases reliability, extends MTTR, and ultimately reduces maintenance efforts. Front accessible I/O cabling is very convenient for wiring and maintenance. The rBOX204 Din-rail computer features a redundant Ethernet LAN connection for greater availability and reliability. Supporting Power-over-Ethernet on ports 1 to 4, the rBOX204 Din-rail computer can power IEEE802.3af compliant devices and transmit data simultaneously, which helps save wiring costs

and makes it ideally suited for outdoor applications such as PoE IP camera, PoE Access Point and intercoms. Two power paths input minimizes the risk of data loss in the event of a single power failure. The rBOX204 Din-rail computer meets Safety Agency requirements and has passed heavy industrial EMI/EMS testing

The ready-to-run rBOX204 equipped with AXView monitoring software is a total solution for intelligent transportation systems, power plant automation, intelligent transportation systems, facility monitoring systems, IP video surveillance, APs, intercoms, and more.

Specifications

Standard Color	Sliver-Black		Storage	Supports 1 x CompactFlash™
Construction	Extruded aluminum and heavy-duty steel, IP30		Installation	Din-rail, wall mount
CPU	AMD LX800 processor		Power Supply	2 power paths
System Board	RM610		Power Input Range	48VDC
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB		Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
System I/O Outlet	Serial Port	2 x RS-232/422/485 (COM 1/2) (isolated COM as option) Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15 KV Serial port speed up to 115.2kbps	Power Consumption (PoE port link up)	With no load on 2 USB ports: 1.66A @ 48V, 79.68W With full load on 2 USB ports: 1.76A @ 48V, 84.48W
	LAN	1 x 10/100Mbps Ethernet Magnetic isolation protection 1.5 KV	Operating Temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ ($-40^{\circ}\text{F} \sim +158^{\circ}\text{F}$)
	PoE	4 x PoE (IEEE802.3af) Magnetic isolation protection 1.5 KV	Storage Temperature	$-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$ ($-49^{\circ}\text{F} \sim +185^{\circ}\text{F}$)
	USB	2 x USB2.0 USB power distribution control by software	Humidity	5% - 95%
	VGA	1 x DB15 connector	Weight (net/gross)	1.38 kg (3 lb)/1.72 kg (3.78 lb)
	Power Input	2 x DC power input with terminal block	Dimensions	81 mm (3.18") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)
	Alarm Contact	One relay output with current 0.5A @30VDC	EOS Support	XPE, WinCE, Linux
Watchdog Timer	2 WDT	WDT 1: one step is 1 sec, 255 levels WDT 2: one step is 250ms, 255 levels	ISO	Manufactured in an ISO9001 facility
LEDs	System	Power, Alarm, Ready/Active, COM (TXD,RXD)	Safety Compliance	UL508, UL60950-1, EN60950-1, IEC60950-1
	Alarm	DC PWR1 or PWR2 is lost (default) User define event (option)	EMI Compliance	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3

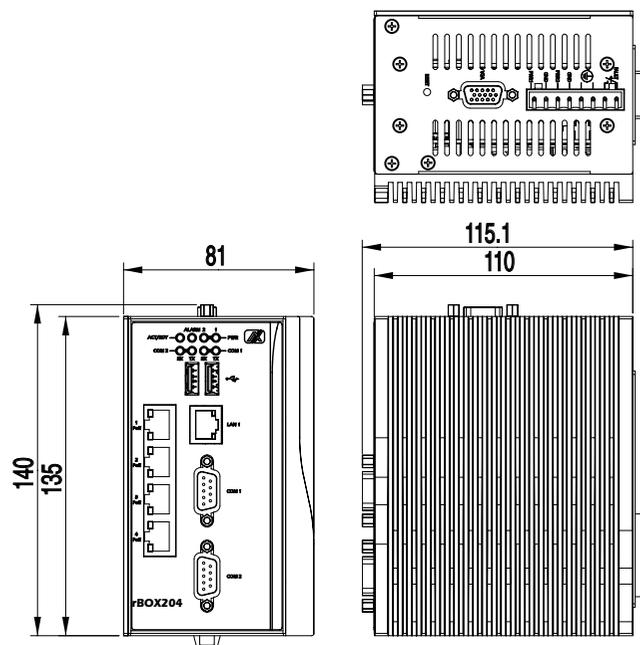
EMS Compliance	EN61000-6-2
	EN61000-4-2 (ESD standards) * Contact: +/- 6 KV; criteria B * Air: +/- 8 KV; criteria B
Environmental Test Compliance	EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000 MHz; 80% AM criteria A
	EN61000-4-4 (burst standards) * Signal ports: +/- 2 KV; criteria B * DC power 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	
rBOX204-FL	Robust Din-rail fanless embedded system with AMD LX800 processor and 4 PoE (-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



Overview

Embedded Systems

Embedded Systems for Transportation

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories