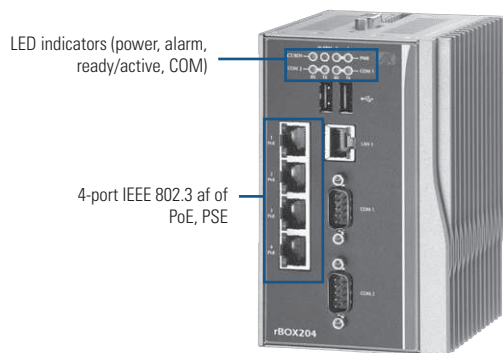


# rBOX204

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



▲ Front view



## 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°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
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 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
	LAN 1 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-port IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- 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



▲ Rear view

System I/O Outlet	PoE	4 x PoE (IEEE802.3af) Magnetic isolation protection 1.5 KV
	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
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 48VDC	
	Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
	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
	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)	

Specifications

EOS Support	XPE, WinCE, Linux
ISO	Manufactured in an ISO9001 facility
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	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.)
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Ordering Information

Standard	
rBOX204-FL	Robust Din-rail fanless embedded system with AMD LX800 processor and 4-port PoE (-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	

\*Specifications and certifications are based on options and may vary.

Dimensions

