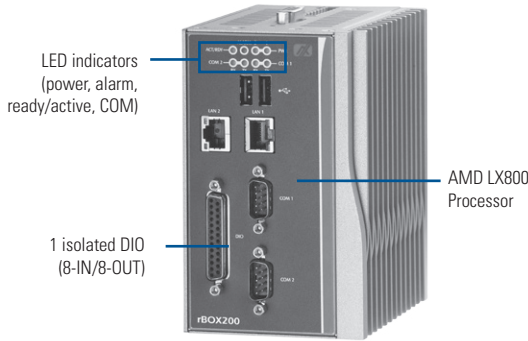


# rBOX200

Robust Din-rail Fanless Embedded System with AMD LX800 + CS5536AF and 1 Isolated DIO (8-IN/8-OUT)



▲ Front view



## Features

- Fanless and cableless design
- Supports AMD LX800 processor
- Wide temperature operation of -40°C ~ +70°C
- 1 isolated DIO (8-IN/8-OUT)
- 2 isolated 10/100Mbps Ethernet ports
- 2 watchdog timer
- LED indicators
- SNMP V1/V2c
- Supports one CompactFlash™
- 2 power paths with terminal block and 12-48VDC
- Supports AXView remote monitoring software package



▲ Rear view

## Introduction

The rBOX200 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.

Its 8-IN/8-OUT DIO port provides users with the digital devices connection, and its redundant Ethernet connection provides greater availability and reliability. Two power paths input minimizes the risk of data loss in the event of a single power failure. With its built-in VGA output interface, the rBOX200 is suitable for use with SCADA systems. The robust rBOX200 is specifically designed for remote control/ monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.

The ready-to-run rBOX200 equipped with AXView remote 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

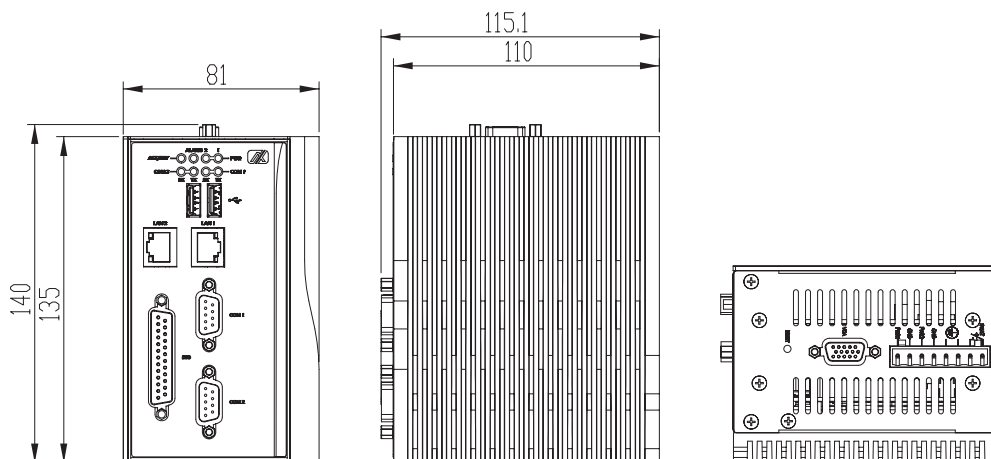
Standard Color	Sliver-Black	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	AMD LX800 processor	
System Memory	1 x 200-pin DDR400 SO-DIMM max. up to 1 GB	
System I/O Outlet	Serial Port	2 x RS-232/422/485 (COM 1/2) (isolated COM as option) Interface select by software or BIOS Supports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

System I/O Outlet	USB	2 x USB 2.0 USB power distribution control by software	
	DIO	1 x DIO (8-IN/8-OUT) DI: Input range : 0-30 VDC Logic level 0 : +/- 3V max. Logic level 1 : +/- 10V min. (COM to DI) DO: Max. 200 mA per channel, current sink type 24VDC normal, open collector to 30V Optical isolation protection 2KV	
	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	12-48VDC	
	Power Input Rating	12-48VDC, 1.3-0.3A	
	Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection	

## Specifications

Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°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
ISO	Manufactured in an ISO9001 facility
Safety	Heavy Industrial CE, including: EN60950-1, IEC60950-1
Safety Compliance	UL508, UL60950-1
EMI	FCC Part 18 Heavy Industrial CE, including: EN61000-6-4, EN61000-3-2, EN61000-3-3
EMS	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

## Dimensions



Environmental Test	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	
rBOX200-FL-DC	Robust din-rail fanless embedded system with AMD LX800 processor and 1 isolated DIO (8-IN/8-OUT) (-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.

Overview

Embedded Systems

Embedded Systems for Transportation

3

Embedded Field Controllers

Industrial Firewall

Digital Signage Solutions

Embedded MicroBoxes

Industrial Barebone Systems

Industrial Chassis

Backplanes

Power Supplies

Peripherals & Accessories

