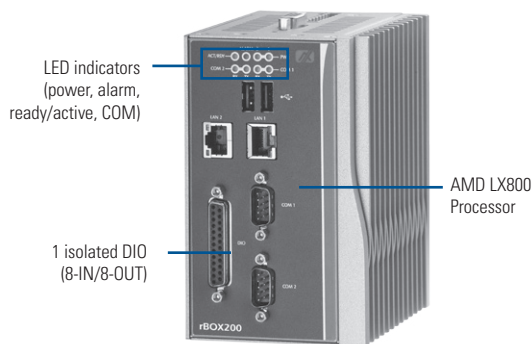# rBOX200

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

Features

- Fanless and cableless design
- Supports AMD LX800 processor
- Wide operating temperature range from -40°C to +70°C
- 1 isolated DIO (8-IN/8-OUT)
- 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

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

AMD LX800 Processor

1 isolated DIO (8-IN/8-OUT)

▲ Front view

DIN-rail kit

▲ Rear view

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

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 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	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 10/100 Mbps Ethernet (Davicom DM9102HI with Mavell 88E6061A110/100 switch) 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 24 VDC normal, open collector to 30 V 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	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, 1.3-0.3A
	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)
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 ISO 9001 facility
Safety	Heavy Industrial CE, including: EN 60950-1, IEC 60950-1
Safety Compliance	UL 508, UL 60950-1
EMI	FCC Part 18 Heavy Industrial CE, including: EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
EMS	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

rBOX200-FL-DC	Robust DIN-rail fanless embedded system with AMD LX800 proceor and 1 isolated DIO (8-IN/8-OUT) (-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	

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

Dimensions