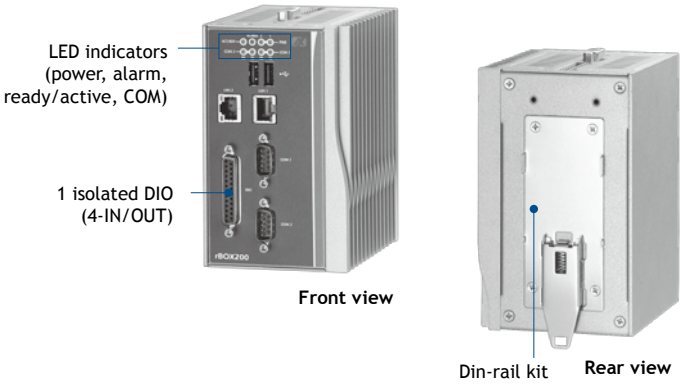
rBOX200

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



EN60950 Extended Temperature

IP30 UL508 Fanless Low Power

Features

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

Introduction

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/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 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 Board	RM610	
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
	USB	2 x USB2.0 USB power distribution control by software
	DIO	1 x DIO (8-IN/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 3 KV
	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 (option)

Storage	Supports 1 x CompactFlash™	
Installation	Din-rail, wall mount	
Power Supply	2 power paths	
	Power Input Range	12-48VDC
	Power Protection	DC Version: OVP (over voltage protection) UVP (under voltage protection) Reverse protection
	Power Consumption	With no load on 2 USB ports: 0.77A @ 12V, 9.24W 0.37A @ 24V, 8.8W 0.27A @ 36V, 9.72W 0.19A @ 48V, 9.12W With full load on 2 USB ports: 1.22A @ 12V, 14.64W 0.62A @ 24V, 14.88W 0.41A @ 36V, 14.76W 0.32A @ 48V, 15.36W
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)	
EOS Support	XPE, WinCE, Linux	
ISO	Manufactured in an ISO9001 facility	
Safety Compliance	UL508 UL60950-1 EN60950-1 IEC60950-1	
EMI Compliance	FCC part 15, class A EN61000-6-4 * EN55022 * EN61000-3-2 * EN61000-3-3	

* All specifications and photos are subject to change without notice.

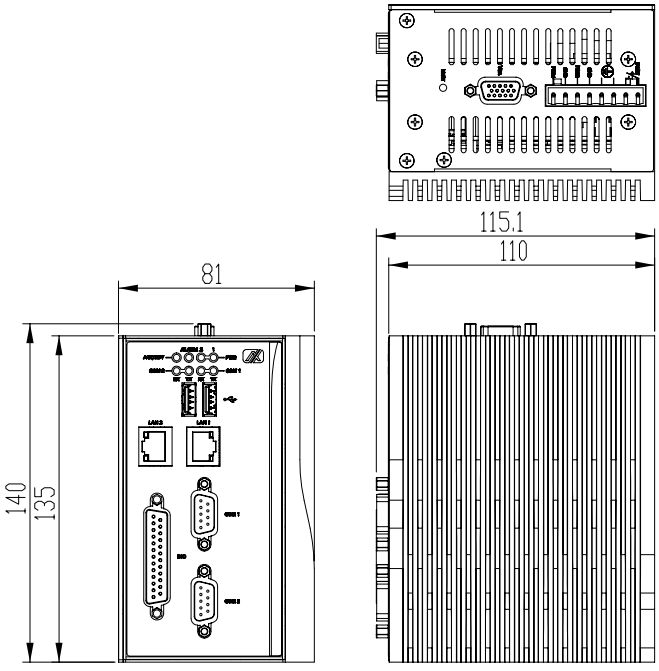
EMS Compliance	EN61000-6-2 EN61000-4-2 (ESD standards) * Contact: +/- 6 KV; criteria B * Air: +/- 8 KV; criteria B EN61000-4-3 (radiated RFI standards) * 10V/m, 80 to 1000 MHz; 80% AM criteria A EN61000-4-4 (burst standards) * Signal ports: +/- 2 KV; criteria B * DC power ports: +/- 2 KV; criteria B 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)

Ordering Information

	Standard
rBOX200-FL	Robust Din-rail fanless embedded system with AMD LX800 processor and 2 isolated DIO (8-IN/OUT) (-40°C ~ +70°F)
	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



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