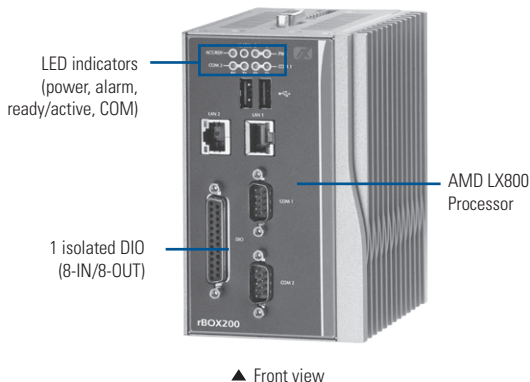


# rBOX200

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



## 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)<br>Interface select by software or BIOS<br>Supports Auto Flow Control in RS-485 mode<br>ESD protection 15 KV<br>Serial port speed up to 115.2kbps |
|                   | LAN                                          | 2 x 10/100Mbps Ethernet<br>Magnetic isolation protection 1.5 KV                                                                                                                                         |

## 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



|                   |                            |                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System I/O Outlet | USB                        | 2 x USB 2.0<br>USB power distribution control by software                                                                                                                                                                                                        |
|                   | DIO                        | 1 x DIO (8-IN/8-OUT)<br>DI:<br>Input range : 0~30 VDC<br>Logic level 0 : +/- 3V max.<br>Logic level 1 : +/- 10V min. (COM to DI)<br>DO:<br>Max. 200 mA per channel, current sink<br>type 24VDC normal, open collector to 30V<br>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<br>0.5A@30VDC                                                                                                                                                                                                                      |
|                   | Watchdog Timer             | 2 WDT<br>WDT 1: one step is 1 sec, 255 levels<br>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)<br>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:<br>OVP (over voltage protection)<br>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:<br>EN60950-1, IEC60950-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Safety Compliance     | UL508, UL60950-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| EMI                   | FCC Part 18<br>Heavy Industrial CE, including:<br>EN61000-6-4, EN61000-3-2, EN61000-3-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EMS                   | Heavy Industrial CE, including:<br>EN61000-6-2<br>EN61000-4-2 (ESD standards)<br>* Contact: +/- 6 KV; criteria B<br>* Air: +/- 8 KV; criteria B<br>EN61000-4-3 (radiated RFI standards)<br>* 10V/m, 80 to 1000 MHz; 80% AM criteria A<br>EN61000-4-4 (burst standards)<br>* Signal ports: +/- 2 KV; criteria B<br>* DC power ports: +/- 2 KV; criteria B<br>EN61000-4-5 (surge standards)<br>* Signal ports: +/- 1 KV; line-to-line; criteria B<br>* DC power ports: +/- 0.5 KV; line-to-earth; criteria B<br>EN61000-4-6 (induced RFI standards)<br>* Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A<br>* DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A<br>EN61000-4-8 (magnetic field standards)<br>* 30 A/m @ 50, 60 Hz; criteria A |

|                    |                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Test | IEC60068-2-6 Fc (vibration resistance)<br>5 g @ 10 ~ 150 Hz, amplitude 0.35 mm (operation/storage/transport)<br>IEC60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shock pulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport)<br>IEC60068-2-32 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    | 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

