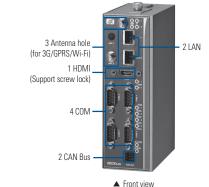


## rBOX630

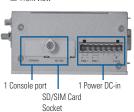
Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6 Processor, 4 COM, 2 CAN Bus and DIO

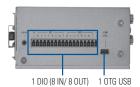
### **Features**

- Fanless design
- RISC-based module (i.MX 6) processor
- 1GB DDR3 SDRAM onboard
- 4GB eMMC onboard
- Completed industrial AP development software
- 12~48 VDC wide range power input with terminal block
- Ready-to-run embedded Linux operating system
- Wide operating temperature range from -40°C to +70°C









▲ Rear view

▲ Easy-to-access interface















The rB0X630 cost-effective DIN-rail fanless embedded system utilizes the low power RISC-based module (i.MX 6) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in harsh environment and industrial automation applications.

The rBOX630 features 4 RS-232/422/485 serial ports, dual LANs, 8 digital input channels, 8 digital output channels, 2 CAN bus and 1 eMMC onboard 4 GB & 1 x SDHC socket for storage expansion (easy to access) in a compact, IP30 protected, industrial-strength robust case. Two power paths input minimize the risk of data loss in the event of a single power failure. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. Because of ARM's low power consumption architecture, rBOX630 generate little heat while being operated. The ready-to-run rBOX630 is specially designed for industrial machine, automatic parking lot, traffic cabinet and more.

#### **Hardware Specifications**

| Standard Color    | Sliver-Black    | Sliver-Black   |  |  |
|-------------------|-----------------|--|--|--|
| Construction      | Extruded alumi  | Extruded aluminum and heavy-duty steel, IP30   |  |  |
| CPU               | i.MX 6, Cortex- | i.MX 6, Cortex-A9 RISC CPU, 800MHz   |  |  |
| System Board      | Q7M120          | Q7M120   |  |  |
| System Memory     | 1 x DDR3-1600   | 1 x DDR3-1600 onboard, 1GB   |  |  |
| System I/O Outlet | Serial Port     | 4 x RS-232/422/485 (COM 1 ~ 4)<br>COM 1~4 with TX/RX/RTS/CTS signals<br>RS-232/422/485 interface select by<br>software |  |  |
|                   | LAN             | 1 x 10/100/1000 Mbps Ethernet<br>1 x 10/100 Mbps Ethernet<br>Magnetic isolation protection 1.5KV                       |  |  |

<sup>\*</sup> All specifications and photos are subject to change without notice

#### **Hardware Specifications**

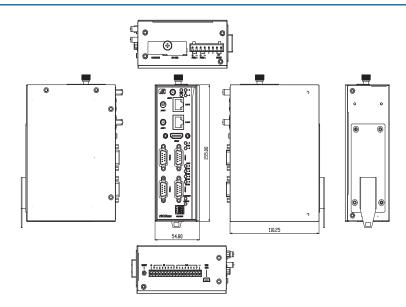
| <u> </u>              |  |   |  |
|-----------------------|--|---|--|
| System I/O Outlet     | Wireless   | 1 x Mini card socket (supports USB interface) with 1 x SIM Socket by outside access and is easy plug/pull. 1 x Mini card socket (supports USB&PCIE interface) with 1 x SIM Socket by inside |  |
| Watchdog Timer        | WDT 1: one step is 1 sec, 255 levels   |   |  |
| LEDs                  | System   | Power, Alarm, Ready/Active, COM<br>(TX, RX), Wireless   |  |
|                       | Alarm  | DC PWR1 or PWR2   |  |
| Storage               | 1 x eMMC 4 GB onboard (for boot disk) Supports 1 x SDHC Card (easy-to-access, for store only.)   |   |  |
| Installation          | DIN-rail, wall mount   |   |  |
| Power Supply          | Power Input  | 2 power paths with terminal block   |  |
|                       | Power Input Range  | 12-48 VDC   |  |
|                       | Power Input Rating   | 12-48 VDC, 0.74-0.23A   |  |
|                       | Power Protection   | DC Version: OVP (Over voltage protection) UVP (Under voltage protection) Reverse protection   |  |
| Operating Temperature | -40°C ~ +70°C (-40°F ~ +158°F)   |   |  |
| Humidity              | 10% ~ 95%  |   |  |
| Vibration Endurance   | 5G @ 10-150Hz, amplitude 0.35ms  |   |  |
| Weight (net/gross)    | 0.9 kg (2 lb)/1.3kg (2.87 lb)  |   |  |
| Dimensions            | 55 mm (2.16") (W) x 155 mm (6.10") (D) x 110 mm (4.33") (H)  |   |  |
| OS Linux              | Linux Host OS/ Development OS: Ubuntu 12.04 Yocto Dora LTS Toolchain/ Cross compiler: Freescale Yocto Kernel: 3.0.35 (with Freescale and Axiomtek hardware modified patch) |   |  |
| Certificate           | FCC Part 18<br>Heavy Industrial CE   |   |  |

#### **Ordering Information**

| Standard                                |  |
|---|--|
| rBOX630-FL-DC                           | Robust DIN-rail fanless embedded system with Q7-RISC module (i.MX 6), 4 COM, 2 CAN and DIO (-40°C ~ +70°C) |
| Optional                                |  |
| Wall mount kit<br>Wireless (3G/GPS or V | Wi-Fi) module  |



### **Dimensions**



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



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