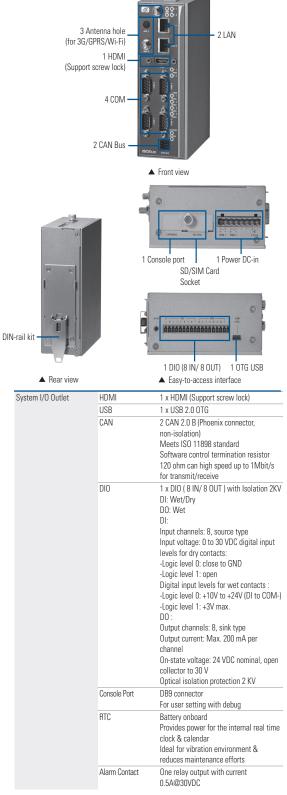


rBOX630

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





Introduction

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, rBDX630 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		
Construction	Extruded aluminum and heavy-duty steel, IP30		
CPU	i.MX 6, Cortex-A9 RISC CPU, 800MHz		
System Board	Q7M120		
System Memory	1 x DDR3-1600 onboard, 1GB		
System I/O Outlet	Serial Port	4 x RS-232/422/485 (COM 1 ~ 4) COM 1~4 with TX/RX/RTS/CTS signals RS-232/422/485 interface select by software	
	LAN	1 x 10/100/1000 Mbps Ethernet 1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV	

* All specifications and photos are subject to change without notice



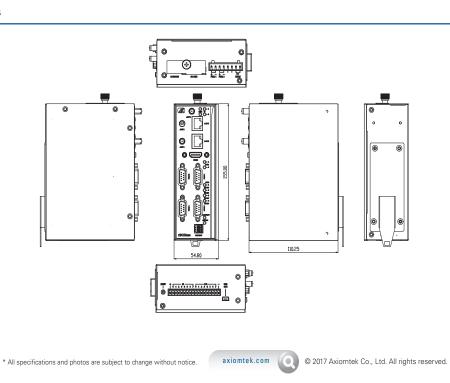
Hardware Specifications

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 (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 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 Wireless (3G/GPS or V	Wi-Fi) module

Dimensions



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