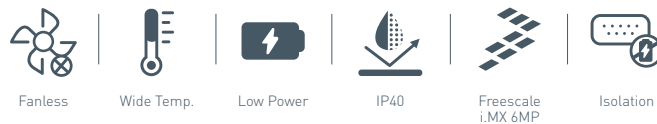
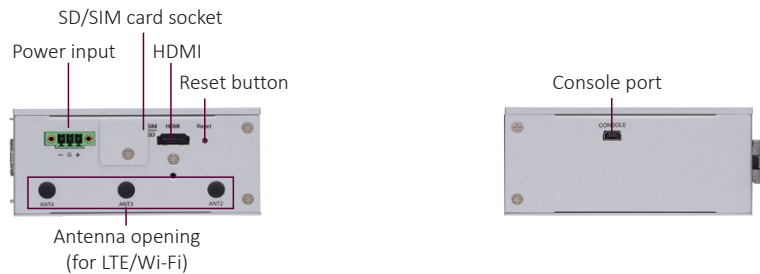
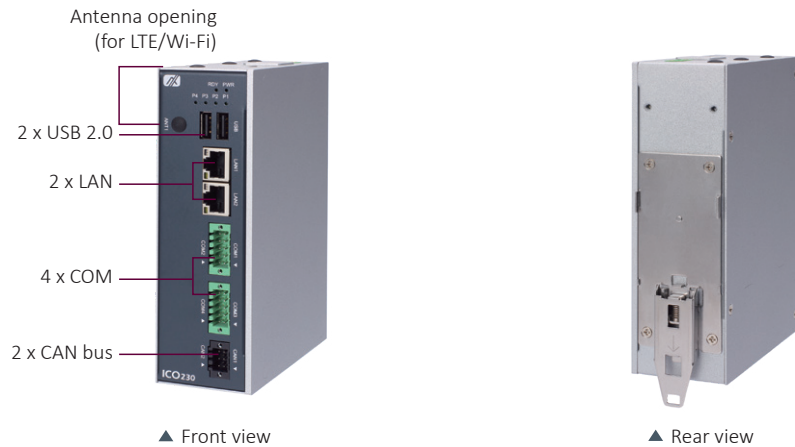


ICO230

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 8MP Processor, 4 Isolated COM, and 2 Isolated CAN FD



Features

- Fanless design
- RISC-based i.MX 8M Plus processor
- 4GB LPDDR4 onboard
- 64GB eMMC onboard
- Isolated COM and CAN FD ports
- 9 to 48 VDC wide range power input with terminal block
- Wide operating temperature range from -40°C to +70°C

Specifications

CPU	NXP i.MX 8M Plus Quad-core Arm® Cortex®-A53 + Cortex®-M7, up to 1.6 GHz
Memory	1 x 4GB LPDDR4 onboard
Storage	1 x 64GB eMMC onboard 1 x Micro SD card slot

Specifications

Ethernet	2 x 10/100/1000 Mbps (Realtek® RTL8211FDI) 1.5 KV magnetic isolation protection
System I/O	1 x HDMI 2 x USB 2.0 1 x console (Mini USB) 4 x isolated COM with terminal block (RS-232/422/485) 2 x isolated CAN FD with terminal block
Expansion Interface	1 x M.2 Key E 2230 slot (USB2.0 + PCIe interface) 1 x full-size PCIe Mini Card slot (USB 2.0 interface) with 1 x externally accessible SIM socket
TPM	TPM 2.0
Watchdog Timer	0.5 to 128 seconds with a time resolution of 0.5 seconds
Power Supply	9 to 48 VDC (typical 12/24/36V) with terminal block OVP, UVP, OCP, RPP power protection design
OS Compatibility	Yocto 4.0 LTS (Kirkstone, Kernel: 5.15.52) Debian 12 (Bookworm, Kernel: 6.6.52)
Mechanical/ Environmental	
Form Factor	DIN-rail, wall mount (optional)
LED	1 x power 1 x ready 4 x GPIO programmable
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% to 95% relative humidity, non-condensing
Construction	Extruded aluminum and heavy-duty steel, IP40 (HDMI bracket must be mounted)
Vibration Endurance	5 Grms, 10 to 150Hz, X/Y/Z direction; random, operating
Dimension (W x D x H)	48 x 110 x 155 mm (1.89" x 4.33" x 6.1")
Weight (net/gross)	0.67 kg (1.48 lbs)/0.82 kg (1.81 lbs)
Certifications	CE, FCC (Class A) Compliant with EN 50121-4

Ordering Information

Standard

ICO230-iMX8MP-B (E22C230101)	Robust DIN-rail fanless embedded system with i.MX 8MP processor, onboard 4GB LPDDR4, 64GB eMMC, 4 COM, and 2 CAN (-40°C to +70°C), and Yocto BSP
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Optional

Wireless (LTE or Wi-Fi) module



Packing List

- 1 x HDMI bracket
 - 3 x screws
 - 1 x Din-rail kit
 - 1 x terminal block for power port
 - 1 x terminal block for CAN bus port
 - 2 x terminal block for COM port
 - 1 x cable tie
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Dimensions

