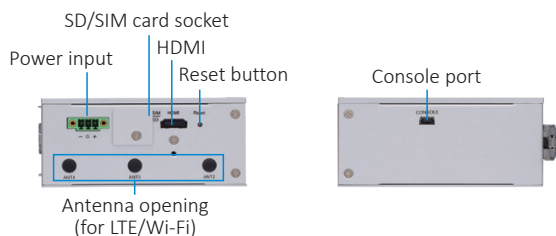
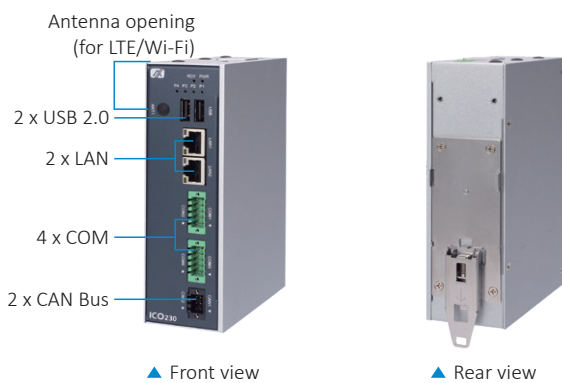


IC0230 NEW

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
- 2GB LPDDR4 onboard
- 16GB 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



Fanless



Low Power



Freescale
i.MX 8MP



Isolation



Wide Temp.



IP40

Specifications

CPU	NXP i.MX 8M-PLUS ARM CORTEX 4xA53 + M7 Industrial 1.6 GHz
Memory	1 x 2GB LPDDR4 onboard
Storage	1 x 16GB eMMC onboard 1 x Micro SD card slot
Ethernet	2 x 10/100/1000 Mbps (Realtek® RTL8211FDI) 1.5 KV magnetic isolation protection
Sysstem 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	OS: Yocto 4.0 LTS (Kirkstone) Kernel: 5.15.52

Specifications

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)
Humidity	10% to 95% RH, 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	48 mm (1.89") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
Weight (net/gross)	0.669/0.822 kg
Certifications	CE, FCC (Class A) Compliant with EN 50121-4

Ordering Information

Standard

ICO230-iMX8MP-A (E22C230100)	Robust DIN-rail fanless embedded system with i.MX 8MP processor, 16GB eMMC, 4 COM, and 2 CAN (-40°C to +70°C)
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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 CANbus port
2 x Terminal block for COM port
1 x Cable tie

Dimensions

