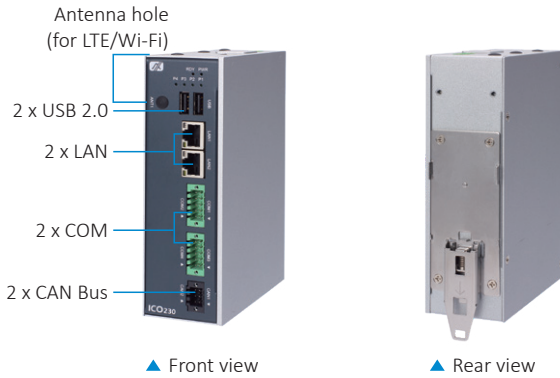


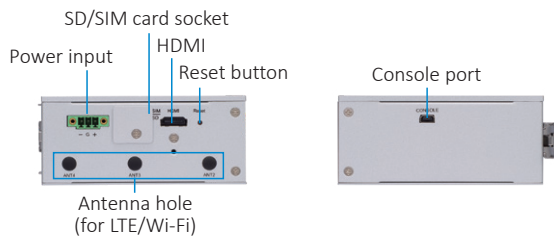
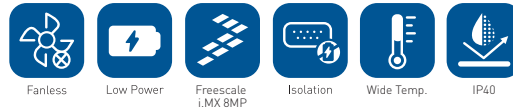
IC0230 NEW

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



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 |
| 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 | 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) |

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) |
|---------------------------------|---|

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

