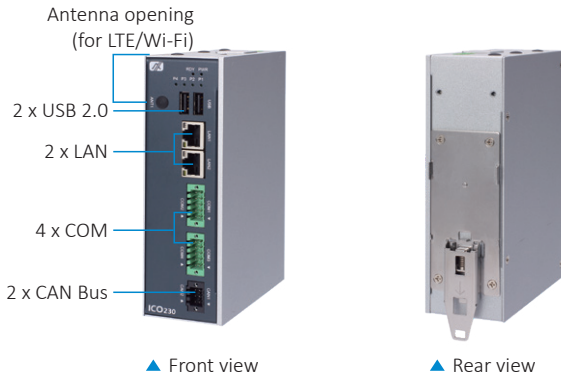


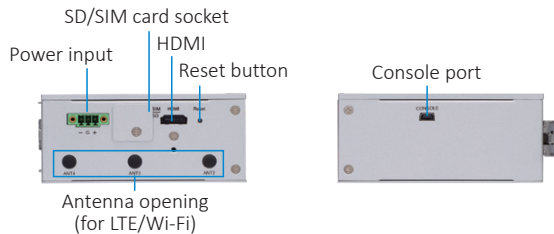
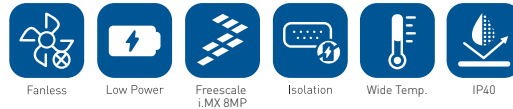
# IC0230 NEW

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<br>1 x Micro SD card slot   |
| Ethernet            | 2 x 10/100/1000 Mbps (Realtek® RTL8211FDI)<br>1.5 KV magnetic isolation protection  |
| System I/O          | 1 x HDMI<br>2 x USB 2.0<br>1 x Console (Mini USB)<br>4 x Isolated COM with terminal block (RS-232/422/485)<br>2 x Isolated CAN FD with terminal block |
| Expansion Interface | 1 x M.2 Key E 2230 slot (USB2.0 + PCIe interface)<br>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<br>OVP, UVP, OCP, RPP power protection design   |
| OS Compatibility    | OS: Yocto 4.0 LTS (Kirkstone)<br>Kernel: 5.15.52  |

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## Specifications

### Mechanical/ Environmental

|                       |   |
|-----------------------|---|
| Form Factor           | DIN-rail, wall mount (optional)   |
| LED                   | 1 x Power<br>1 x Ready<br>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)<br>Compliant with EN 50121-4                              |

## Ordering Information

### Standard

|                                 |   |
|---------------------------------|---|
| ICO230-iMX8MP-A<br>(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

