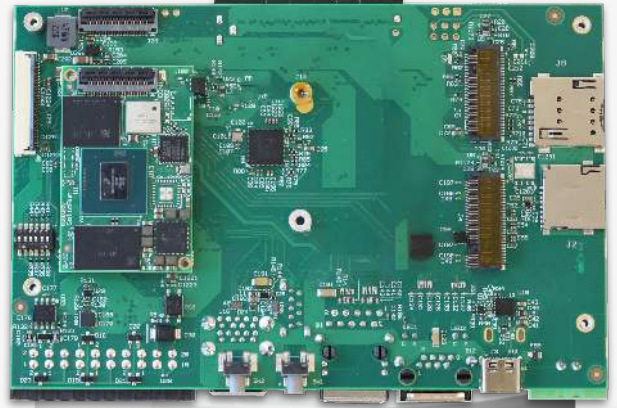


HummingBoard i.MX8M IIOT SBC

- Based on NXP i.MX8M Plus Quad-core A53, up to 1.8 GHz
- M.2 extension cards support such as LTE, NVMe and AI accelerators
- Industrial Interfaces Support: 2x RS232, 2x RS485, 2x CAN-FD, 2x 1Gb Ethernet
- Easy-to-use industrial displays for HMI applications: LVDS and MIPI-DSI



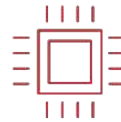
**Extended
Temperature**



**Many Customization
Options**



Cost Effective



**Rich Connectivity
for IOT**



**Industrial Grade,
10 year longevity**



Industrial Protocol Support

Based on i.MX8M Plus Quad-core A53, up to 1.8 GHz.
The IIoT Gateway supports multiple industrial protocols, including RS232, RS485, CAN-FD, and 1Gb Ethernet, with flexible power options including a wide power range and PoE.



Expandable Connectivity and Scalability

It supports multiple M.2 cards for LTE connectivity with M.2 B-key, including dual SIM support.
M.2 M-key for NVMe storage and various AI accelerators.
Additional add-on card options for enhanced features.
Highly scalable and upgradeable to meet diverse requirements.



Industrial Grade Enclosure

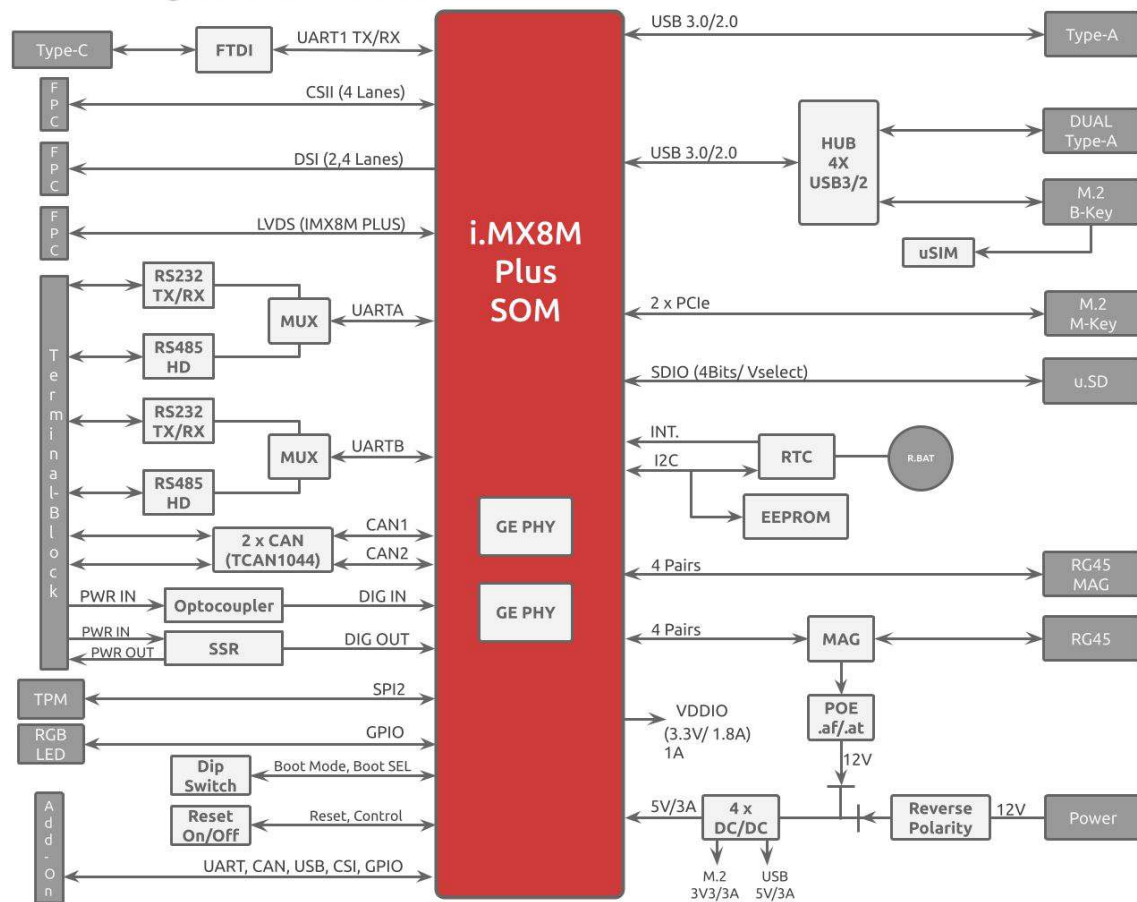
The IIoT Gateway is housed in a robust extruded aluminum enclosure, designed for industrial installations with a temperature range of -40 to 85 degrees Celsius. It features a compact size of only 120x80x30mm and includes support for DIN rail mounting. Custom branding support is possible.



Comprehensive Software Support

This HummingBoard 8M IIOT SBC comes with the latest releases of Yocto and Debian BSP. Includes drivers for all peripherals such as TPM 2.0, RTC, Wi-Fi/BLE, and various interfaces.

HummingBoard Industrial IOT



HummingBoard i.MX 8M IIOT SBC

I/Os

2x RS232, 2x RS485, or RS232 + RS485
 2 x CAN-FD
 1 x USB3.0 (OTG)
 2 x USB3.0 (Host)
 2x MIPI-CSI 4 lanes (1x 4 lanes MIPI-CSI on the SoM, 1x 4 lanes on the carrier)

Networking

2 x Ethernet RJ45 10/100/1000
 1 x 802.11 a/b/g/n/ac WiFi and Bluetooth (2.4/5 GHz)

Processor

NXP i.MX 8M Plus Quad core ARM Cortex A53
 up to 1.8GHz

Memory & Storage

Up to 8GB LPDDR4
 Up to 128GB eMMC
 MicroSD

Display

Not available on the IIoT gateway
 The Evaluation kit comes with 7" touch display LVDS/Mipi-DSI

Misc

TPM2.0
 GPIO
 RTC
 EEPROM

Power

9V – 32V
 PoE sink support 802.3at
 Reverse polarity support

Expansion card I/Os

M.2 B-Key LTE modem (eSIM, NanoSim)
 M.2 M-Key - NVMe or AI accelerator
 Additional add-on cards are supported*

Temperature

Industrial: -40°C to 85°C

Dimensions

120 x 80 x 30mm

Enclosure

Extruded aluminum