

SBC-IOT-IMX8

Your industrial world, seamlessly connected



Category	SBC-IOT-IMX8 (Mini)	SBC-IOT-IMX8PLUS (Plus)
Main CPU	NXP i.MX8M Mini, quad-core ARM Cortex-A53 @ 1.8 GHz	NXP i.MX8M Plus (QuadLite/Quad), quad-core ARM Cortex-A53 @ 1.8 GHz
AI Accelerator	–	NPU up to 2.3 TOPS
Real-Time MCU	ARM Cortex-M4	ARM Cortex-M7 @ 800 MHz
GPU / Video	–	GC7000UL GPU, 1080p60 H.265/H.264
Display Output	–	DVI-D up to 1080p60
RAM	1–4 GB LPDDR4	1–8 GB LPDDR4
Primary Storage	4–64 GB eMMC	16–128 GB eMMC
Secondary Storage	Optional 16–64 GB eMMC	Optional 16–128 GB eMMC
Ethernet	1× 1 GbE + 1× 100 MbE	2× 1 GbE
Wi-Fi / Bluetooth	Wi-Fi 6 + BT 5.1/5.3	Wi-Fi 6E + BT 5.3
Wireless Mesh	–	Optional Thread / Zigbee / BT Mesh
Cellular	4G/LTE CAT1	4G/LTE CAT4 (regional variants)
GNSS	GPS/GLONASS (via modem)	GPS (via modem)
USB Ports	3× USB2.0	2× USB2.0 + 1× USB3.0
Serial Ports	1× RS485/RS232	Up to 3× RS485/RS232
CAN Bus	Optional	1× CAN + optional 2nd CAN
Digital I/O	Optional 4× in + 4× out	Optional 4× in + 4× out
Analog Input	Optional 4–20 mA	Optional 0–10 V / 4–20 mA
PCIe	1–2 mini-PCIe sockets	– (expansion via connector)
Debug	UART-to-USB console	UART-to-USB console + SDP/UUU
Expansion Connector	SPI, UART, I ² C, GPIO	LVDS, SDIO, USB, SPI, I ² C, GPIO
Security	Secure Boot, optional TPM 2.0	Secure Boot, optional TPM 2.0
RTC	Yes	Yes
Watchdog	–	Hardware watchdog
PoE	Optional 100 MbE PoE port	Optional PoE support
Sensors	–	Optional 6-axis IMU
Dimensions	104 × 80 × 23 mm, 150g	125 × 80 × 25 mm, 150g
Operating Temp	0–60 °C / –40–80 °C	0–60 °C / –40–80 °C
Storage Temp	–40–85 °C	–40–85 °C
Humidity	10–90% operating	10–90% operating
MTTF	>200,000 h	>200,000 h
Warranty	5 years	5 years