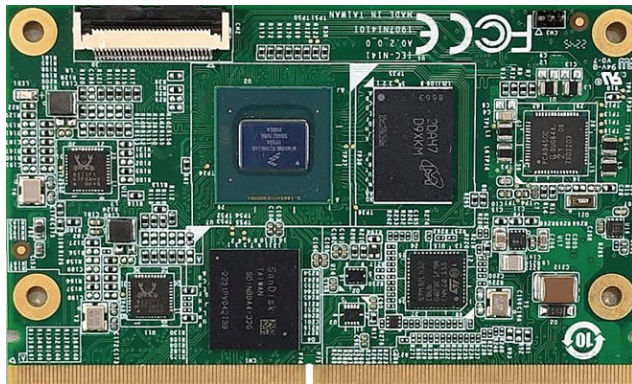


ACM-IMX8E

NXP i.MX8M, State-of-the-Art, Feature-Rich, SOM Board



Features

- Up to 1.6GHz Quad-core ARM Cortex-A53
- Short-sized SMARC (82 x 50mm) with MXM3 connector
- Up to 8GB LPDDR4, 32GB eMMC
- Triple display: HDMI 2.0a, LVDS, MIPI-DSI
- Up to 2.3 TOPS NPU performance
- Feature-rich, scalable building blocks:
USB 3.0 / CAN bus / PCIe Gen3 interfaces
- Industrial operating temperature: -20°C ~ 70°C
- Yocto, Ubuntu, and Android support

Specification

Specification

Form Factor	SMARC (82 x 50 mm) with MXM3 connector
Processor	NXP i.MX8M Plus Cortex-A53, Quad-core, 1.6GHz NXP i.MX8M Plus Cortex-A53, Dual-core, 1.6GHz (model variant)
RAM	2GB/4GB/8GB LPDDR4 (model variant)
Storage	16/32GB eMMC (model variant)
Network	2 x Gigabit Ethernet
Display	1 x HDMI 2.0a 1 x dual channel 24-bit LVDS 1 x MIPI-DSI 4-lane shared with second LVDS channel
Video input	1 x 2-lane MIPI-CSI 1 x 4-lane MIPI-CSI
Serial interfaces	2 x UART 2 x CAN bus 3 x I ² C 1 x JTAG
USB	2 x USB 3.0
PCIe	1 x PCIe Gen3
Audio	1 x I ² S
Power supply	5V DC
Environmental	• Operating temperature: -20°C ~ 70°C • Humidity: 5 ~ 95% relative humidity, non-condensing
Dimensions	82 x 50 mm

Ordering Information

ACM-IMX8E1	NXP i.MX8 Plus, 1.6GHz, 4GB RAM, 32GB eMMC
ACM-IMX8E2	NXP i.MX8 Plus, 1.6GHz, 2GB RAM, 16GB eMMC
ACM-IMX8E3	NXP i.MX8 Plus, 1.6GHz, 8GB RAM, 32GB eMMC

Block Diagram

