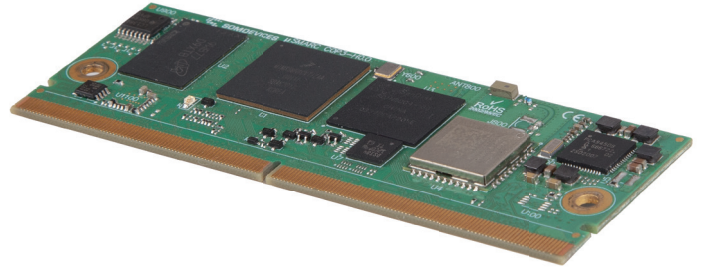


SOMDEVICES

μSMARC

iMX8M

MINI



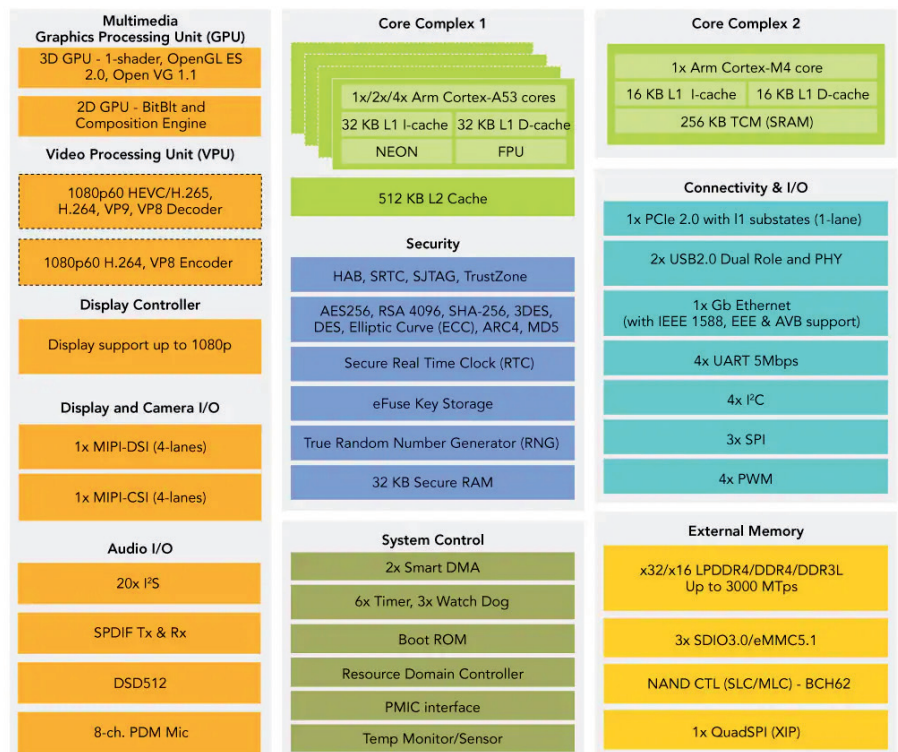
SOMDEVICES μSMARC i.MX8M Mini product is based on i.MX8M Mini NXP processor family (Quad core ARM Cortex-A53 and ARM Cortex-M4F) and equipped with WiFi/BT, Gigabit ethernet, 2D/3D Graphics and Full HD @ 60fps multimedia.

i.MX8M Mini provides cost-effective integration and affordable performance for smart, connected, power-efficient devices requiring graphics, video encoding/decoding, vision, voice control, intelligent sensing and general-purpose processing.

SOMDEVICES presents μSMARC, a NEW smaller mechanical concept form factor beyond SMARC module standard but 100% compatible up to SMARC 2.1.

Benefits

- Powerful multimedia
- Video encoding/decoding
- Low-cost
- Fast time to market
- Industrial grade
- Customizable
- Long term support
- Warranty
- Full open source ecosystem



Specifications

Processor	Up to 4x ARM Cortex-A53 1.6 GHz up to 1.8 GHz 1x Cortex-M4F up to 400MHz
Memory	RAM: From 512MB up to 4GB LPDDR4 FLASH: From 4GB up to 64GB eMMC
PMIC	NXP PCA9450
Video	Up to 2x LVDS or MIPI-DSI (4 lanes) Video decode 1080p60 (h.265, VP9, h.264, VP8) Video encode 1080p60 (h.264, VP8)
2D/3D	GCNanoUltra 3D GPU OpenGL ES 2.0 OpenVG 1.1 GC320 2D GPU
Camera	MIPI CSI2 (4 lanes)
Peripherals	1x 10/100/1000 Mbps Ethernet 1x CAN 1x I2S 3x I2C 1x SPI 1x QSPI 3x UART (2x flow-control 4-wire, 2x 2-wire) 13x GPIOs 1x SDIO 1x USB OTG 1x USB HOST Up to 3x PWM 1x PCIe (1 lane)
Wireless	Wifi: WiFi 802.11 a/b/g/n/ac Bluetooth: 5.1
Mechanical	New μ SMARC form factor 82x30 mm
Mounting	MXM 3.0 314 pin SMARC connector
Temperature	-40°C to 85°C
Humidity	93% relative Humidity at 40°C, non-condensing (IEC 60068-2-78)
Support	Linux (Yocto, Ubuntu or Debian)

Ordering information

C0P3-V10:	SOMDEVICES μ SMARC iMX8M MINI FULL (Quad 1600MHz/1024MB LPDDR4/16GB eMMC/WiFi/BT/ETH)
C0P3-V11:	SOMDEVICES μ SMARC iMX8M MINI NO WIFI (Quad 1600MHz/1024MB LPDDR4/16GB eMMC/ETH)
C0P3-V1?:	SOMDEVICES μ SMARC iMX8M MINI custom (Contact sales to assemble custom made products such as better project adjustment or large volumes. We are manufacturers.)

