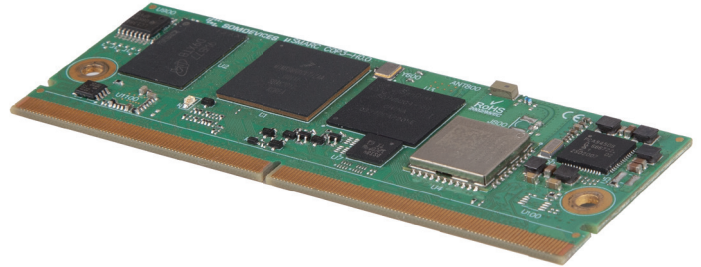


# SOMDEVICES

## μSMARC

# iMX8M

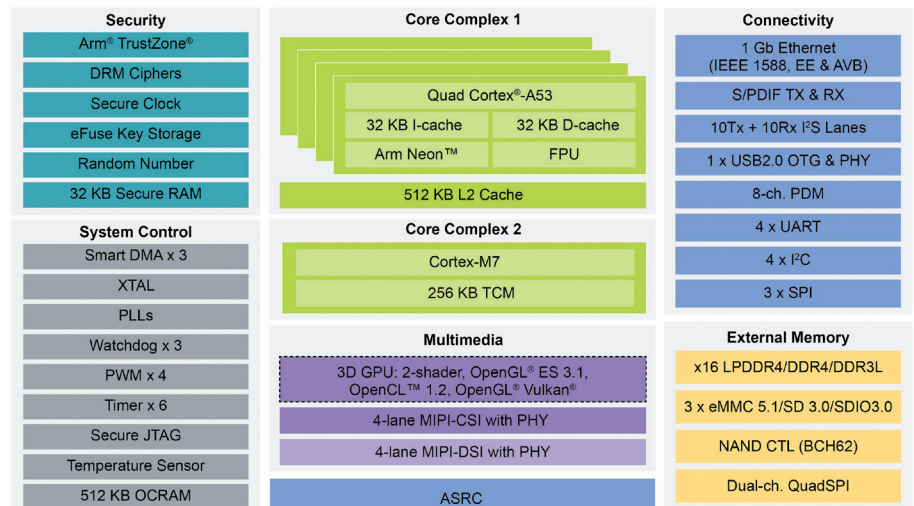
# NANO



SOMDEVICES μSMARC i.MX8M Nano product is based on i.MX8M Nano NXP processor family (Quad core ARM Cortex-A53 and ARM Cortex-M7) and equipped with WiFi/BT, Gigabit ethernet and 2D/3D Graphics.

i.MX8M Nano provides cost-effective integration and affordable performance for smart, connected, power-efficient devices requiring graphics, 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.



☐ Not Available on the i.MX 8M Nano Lite and Nano UltraLite    ■ Not Available on the i.MX 8M Nano UltraLite

## Benefits

- Powerful multimedia
- 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 1.4 GHz up to 1.5 GHz 1x Cortex-M7 up to 750MHz
Memory	RAM: From 256MB up to 2GB LPDDR4 FLASH: From 4GB up to 64GB eMMC
PMIC	NXP PCA9450
Video	Up to 2x LVDS or MIPI-DSI (4 lanes)
2D/3D	GC7000UL 2D/3D GPU OpenGL ES 3.1 OpenVG 1.1 OpenCL 1.2 Vulkan
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 Up to 3x PWM
Wireless	Wifi: WiFi 802.11 a/b/g/n/ac Bluetooth: 5.1
Mechanical	New $\mu$ 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-V20:	SOMDEVICES $\mu$ SMARC iMX8M NANO FULL (Dual 1400MHz/1024MB LPDDR4/16GB eMMC/WiFi/BT/ETH)
C0P3-V21:	SOMDEVICES $\mu$ SMARC iMX8M NANO NO WIFI (Dual 1400MHz/1024MB LPDDR4/16GB eMMC/ETH)
C0P3-V2?:	SOMDEVICES $\mu$ SMARC iMX8M NANO custom (Contact sales to assemble custom made products such as better project adjustment or large volumes. We are manufacturers.)