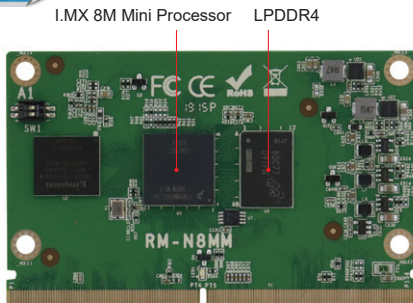




Specifications

CPU	NXP i.MX 8M Mini Quad-core Cortex-A53 and Cortex-M4 processor
PCH	N/A
Memory	System memory: 2GB LPDDR4 on board Data memory: 8GB eMMC on board
BIOS	N/A
Watchdog Timer	N/A
H/W Monitor	N/A
Storage Device Interface	2x High-speed MMC/SDIO (MMC 8-bit, SDIO 4-bit)
Expansion Slots	SMARC connector to carrier board
Graphics Controller	GCNanoUltra, Vivante GC320
Video Output	1x MIPI-DSI 4-lane up to 1920 x 1080 at 60 Hz
Ethernet	1x GbE LAN
I/O Chipset	N/A
Serial Port	4x UART, 2x SPI
USB 2.0	2x USB 2.0 with OTG interface
USB 3.X	N/A
Serial ATA	N/A
Audio	2x I²S, 1x SPDIF
TPM	N/A
Others	Wireless WCN3980 (option) 12x GPIO, 4x I²C, 1x PCIe (x1) Gen2 Image capture: 1x MIPI-CSI2 4-lane Video codec: 1080p60 VP9/MP8, HEVC/H.265 decode, AVC/H.264 decode & encode; TrustZone support Shock: non-operating 1G, 15 mins (x/y/z-axis); Vibration: non-operating 3 Hz to 500 Hz, 15 mins
Dimensions (L X W)	82mm x 50mm (3.2" x 2")

Features

- NXP Cortex™-A53/ Cortex™-M4, i.MX 8M Mini Quad-core processor
- 2GB LPDDR4, 8GB eMMC on board
- Wide-range operating temperature (-40°C to 85°C)
- Extensive peripheral I/O support
- Validated with Yocto 2.5 and Android 9.0
- Long-term availability with NXP solution
- Compliant with SMARC™ 2.0

Power Consumption	N/A
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Storage Temperature	N/A
Relative Humidity	0% ~ 90% RH @60°C (non-condensing)

Ordering Information

RM-N8MMI-Q208I	Industrial Grade SMARC™ 2.0, Cortex-A53 i.MX 8M Mini Quad-core 1.6GHz processor, 2GB LPDDR4, 8GB eMMC
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Dimensions and Drawing

