



Features

- NXP Cortex™-A53/ Cortex™-M4 i.MX 8M Mini Quad processor
- 2GB LPDDR4, 8GB eMMC on board
- Wide-range operating temperature (-40°C to 85°C)
- Rich peripheral I/O support
- Validated with Yocto v2.5 and Android 9.0
- Long life time supply with NXP solution
- Compliant with SMARC™ 2.0

Specifications



Form Factor	SMARC™ 2.0
Processor	NXP i.MX 8M Mini Quad Cortex™-A53 and Cortex™-M4 processor
System Memory	2GB LPDDR4 on board
Flash Memory	8GB eMMC on board
Display	1x MIPI-DSI 4-lane up to 1920 x 1080 at 60Hz
Video Codec	<ul style="list-style-type: none"> • 1080p60 VP9 • 1080p60 HEVC/H.265 decoder • 1080p60 AVC/H.264 Baseline, Main, High decoder • 1080p60 VP8 • 1080p60 AVC/H.264 encoder • 1080p60 VP8 • TrustZone support
Graphics	<ul style="list-style-type: none"> • GCNanoUltra • Vivante GC320
Audio Interface	2x I ² S, 1x SPDIF
LAN	1x GbE LAN
USB	2x USB 2.0 with OTG interface
Image Capture Interface	1x MIPI-CSI2 4-lane
Serial Interface	4x UART, 2x SPI Interface
Media Interface	2x High-speed MMC/SDIO (MMC 8-bit, SDIO 4-bit)
PCI-E	1x PCI-E (x1) Gen2
SATA	N/A
GPIO	12x GPIO
I ² C	4x I ² C
Others	wireless WCN3980 (optional)
CAN Bus	N/A
Dimensions	82mm x 50mm (3.2" x 2")
Environment	Humidity: 0 % to 90 % RH at 60° C (non-condensing) Shock: Non-operating: 1G, 15 mins (x-, y-, z-axis) Vibration: Non-operating: 3 Hz to 500 Hz, 15 mins
Operating Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
OS Support	Yocto 2.5 Android 9 Other OS (by request)
Certification	CE/ FCC Class-B

Ordering Information

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

