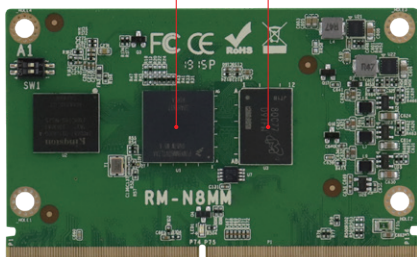




I.MX 8M Mini Processor LPDDR4



Specifications

Form Factor	SMARC™ V2.0
Processor	NXP i.MX 8M Mini Quad Cortex™-A53 and Cortex™-M4, 1.6GHz
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	• 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	• GCNanoUltra • Vivante GC320
Audio Interface	2x I²S, 1x SPDIF
LAN	1x GbE LAN
USB	2x USB2.0 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
I²C	4x I²C
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
Certification	CE/ FCC Class B

Features

- With NXP Cortex™-A53 i.MX 8M Mini Quad 1.6GHz industrial-grade processors
- 2GB LPDDR4, 8GB eMMC on board
- Wide operating temperature from -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 SGeT standard SMARC™ V2.0

Ordering Information

RM-N8MMI-Q208I

Industrial Grade SMARC™ 2.0 CPU module, Cortex™-A53 i.MX 8M Mini Quad 1.6GHz, 2GB LPDDR4, 8GB eMMC

Dimensions

