



CPU

CPU Name	NXP i.MX 8MQuad (Dual, QuadLite available on request)
CPU Cores	4 * Cortex-A53 + 1 * Cortex-M4F

Memory

RAM	2GB LPDDR4
eMMC	8GB eMMC (expandable to 128)

Multimedia

2D/3D Graphics Acceleration	GC7000Lite
Video Encode / Decode	4Kp60 H.265 and VP9
Camera Interfaces	x2 4-lane MIPI-CSI

Display

HDMI	v2.0 4k@60
MIPI-DSI	1080p60 (4-lane)

Networking

Ethernet	10/100/1GB
WiFi	Pre-Certified: 802.11ac (BD-SDMAC)
Bluetooth	BT 4.1 (BD-SDMAC)

Audio

Headphone	Yes
Microphone	Analog MIC
Amplifier	2W (1W per channel)

Connectivity

I2C	X3
SPI	x1
USB	3 USB3.0 Host, 1 USB3.0 OTG
RTC	Yes
PCIe	x1 On-board (Gen 3.0 + SIM Card Slot), x1 Via Daughterboard

NIT8MQ_2R8EWB_BRD (I.MX 8M QUAD, 2GB LPDDR4, 8GB EMMC, WIFI+BT)

Embedded single board computer featuring NXP's new i.MX 8M applications processor, 2 GB of LPDDR4 RAM, 8GB eMMC, and BD-SDMAC WiFi+BT module. An Accessory Kit option is available and includes: 5V Power Supply, battery, Antenna, and Serial Console Cable.

214 in stock

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NIT8MQ_2r8eWB_BRD is an ARM based single board computer (SBC) designed to leverage the full capabilities of NXP's i.MX 8M Quad processor. The board includes a full host of components including 2GB of LPDDR4 RAM, 8GB eMMC, and a pre-certified WiFi Bluetooth module ([BD-SDMAC](#)). A kit option (NIT8MQ_2r8eWB) is also available.

The NIT8MQ_2r8eWB_BRD is designed for mass production use with a guaranteed 10 year life span, FCC Pre-scan results, and a stable supply chain. As with all Boundary Devices products, the NIT8MQ_2r8eWB_BRD can be modified by depopulating unused components for cost reduction. In addition, industrial temperature versions as well as conformal coating options are available.

If you are interested in information about designing a custom NIT8MQ_2r8eWB_BRD to your exact specifications, contact info@boundarydevices.com.

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Environmental Specifications	
Commercial Temp (0 to 70C)	Yes
Industrial Temp (-40C to +85C)	Contact Us
OS Support	

Android	Yes
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