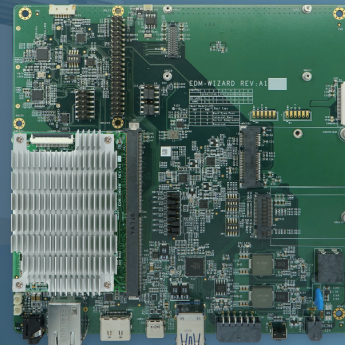


EDM-WIZARD-IMX8M

- The EDM-WIZARD-IMX8M platform can be applied in a wide range of applications ranging from simple IoT devices to applications with high level of complexity.
- Features NXP i.MX8M Quad processor that runs up to 1.3GHz per core, based on the ARM Cortex A-53 + M4 architecture, delivered in advanced low-power process.
- Features video quality with full 4K UltraHD resolution and HDR.
- Software source code at your fingertips: Android, Linux and Yocto.



Specifications

Core System

Processor	NXP i.MX8M Quad
Processor Speed	1.3GHz
Architecture	ARM Cortex-A53 + M4
PMIC	ROHM BD71847
Memory	up to 4GB LPDDR4
Storage	16GB eMMC (default)
Board-to-Board Connector	EDM connector (314-pin MXM3)
System on Module	EDM SOM
Debug Interface	UART Interface by Through-hole

Connectivity

Network LAN	1x Realtek RTL8211
Wi-Fi	Qualcomm Atheros QCA9377 Wi-Fi 5 – 802.11 a/b/g/n/ac
Bluetooth	Qualcomm Atheros QCA9377 Bluetooth
Antenna	MHF4 connector

Signaling

I/O	HDMI	I ² S
	LAN	UART
	MIPI CSI	SPI
	MIPI DSI	I ² C
	PCIe	PWM
	USB	GPIO
	USB OTG	

Video

GPU Engine	Vivante GC7000Lite
Video Decode	4K UltraHD HDR 4Kp60, H.265 VP9
Video Encode	1080p120 H.264
Camera	MIPI CSI (4 lanes)

Audio

Audio Codec	Cirrus Logic WM8960
Audio Interface	I ² S (2 channel)
Audio Connectors	CTIA compliant 3.5mm audio jack

Power Specifications

Power Input	12V DC +/-5%
Power Consumption	Depending on Configuration
Power Connector	2-pin Micro-Fit 3.0

Operation Systems

Standard Support	Linux Yocto Android
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Environmental and Mechanical

Dimensions	170 (W) x 170 (H) x 26.8 (D) mm
Form Factor	Mini-ITX
Relative Humidity	10 to 90 %
MTBF	50,000 Hours
Shock	15G half-sine 11 ms duration
Operation Temperature	Commercial: 0° to +60° C
Vibration	1 Grms random 5-500Hz hr/axis
Weight	240 grams

External Connectors

External Display	1x HDMI
Network	1x RJ45
USB	1x USB 2.0 Host 1x USB 2.0 OTG (Type-C)
Buttons	1x Reset
SIM Cardslot	2x Micro-SIM cardslot

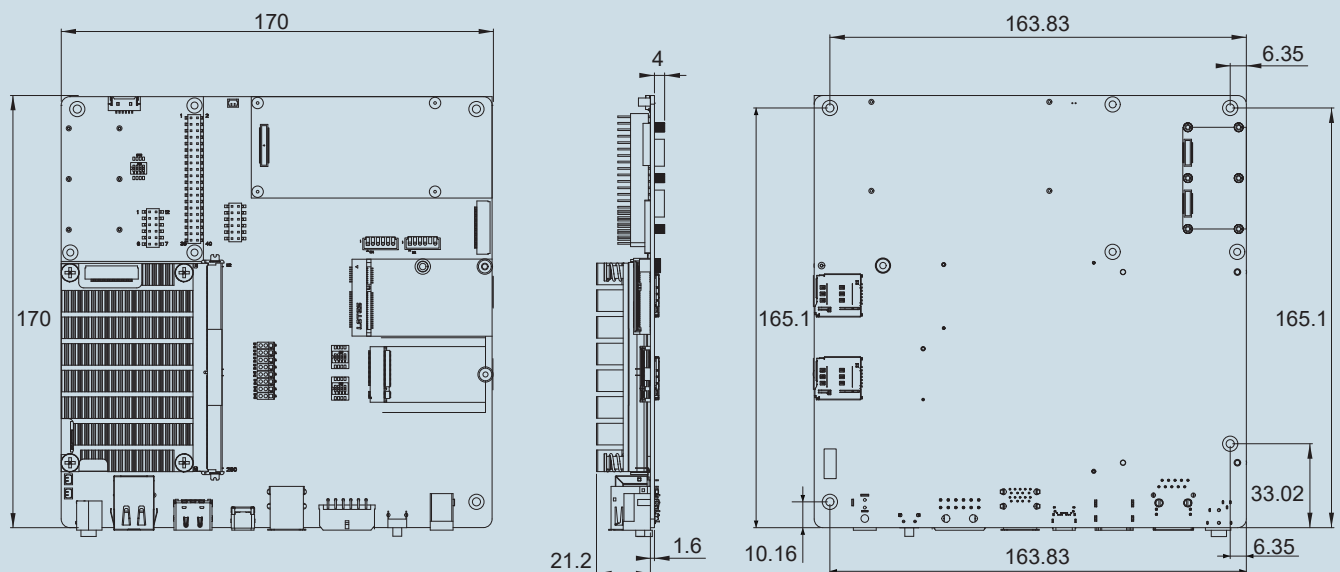
Expansion Interfaces

Expansion Slots	1x M.2 slot 1x mini-PCIe
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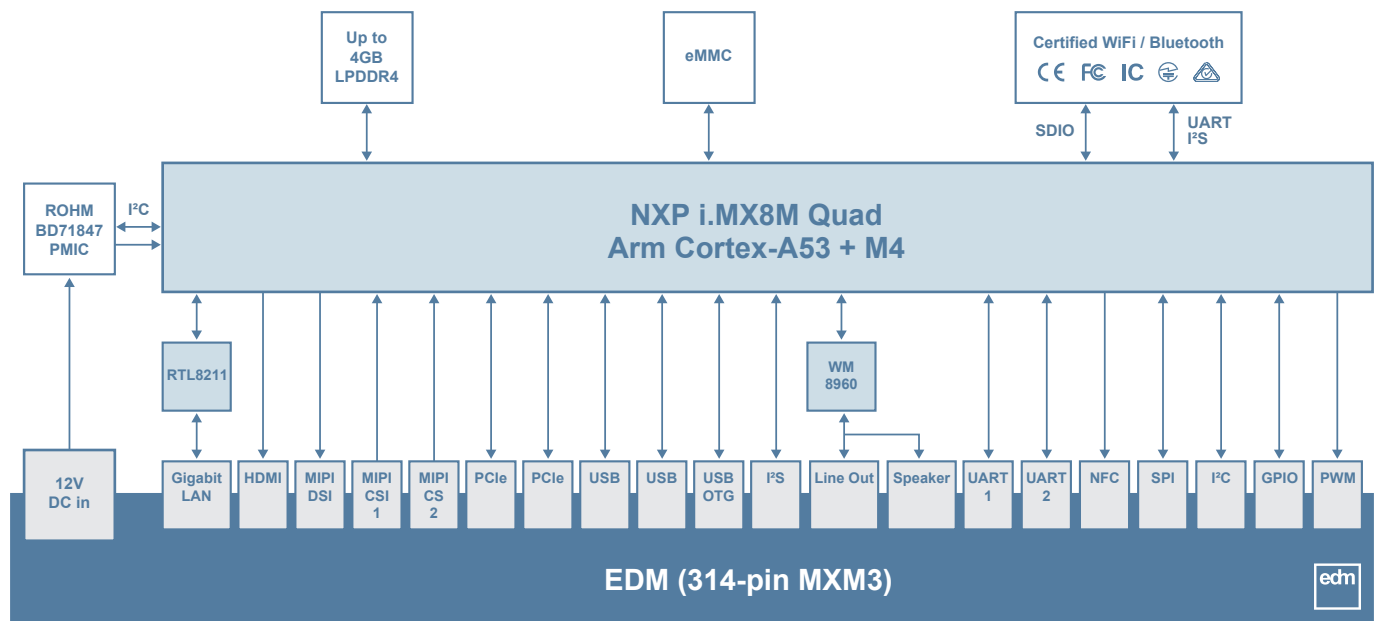
Certification and Compliance

USA	FCC ID: 2AKZA-QCA9377
Canada	IC: 22364-QCA9377
European Union	EN 300 328 v2.2.2 EN 301 893 v2.1.1 EN 55032 / EN 55024
Japan	TELEC: 201-180629
Australia/New Zealand	RCM Compliant
Bluetooth Logo	QDID 150839 (Bluetooth 4.2) QDID 193238 (Bluetooth 5)
Certification	Compliant with RoHS / REACH directives

Dimensions (units in mm)



Block Diagram



Ordering Information

EDM-WIZARD-IMX8M

NXP i.MX8M Quad Development Board with up to 4GB LPDDR4, 16GB eMMC and Wi-Fi + BT wireless connectivity including MHF4 antenna, USB Type-C and UART debug cables, RTC battery, 2-pin Micro-Fit 3.0 DC power latch cable, stands and optional 5"/8"/10.1" PCAP Multi Touch LCD display, 5MP camera module, HDMI expander card or HDMI capture card.

