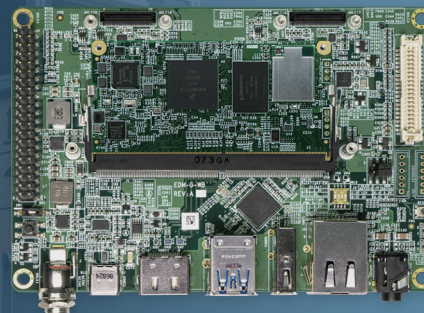


WB-EDM-G-IMX8M-MINI

- Modern System on Module form factor
- Up to 4 Cortex-A53 1.8 GHz processors
- NXP i.MX 8M Mini applications processor
- Armv8 64-Bit CPU cores



Specifications

Core System

Processor	NXP i.MX8M Mini
Processor Speed	1.8 GHz
Architecture	ARM Cortex-A53 + M4
PMIC	NXP PCA9450
Memory	Up to 8GB LPDDR4
Storage	32GB eMMC (default)
Board-to-Board Connector	260-pin DDR4 SO-DIMM
System on Module	EDM SOM
Debug Interface	JTAG Interface by Through-hole

Signaling

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

Video

GPU Engine	OpenGL® ES 2.0
Video Decode	1080p60 VP9 Profile 0, 2 (10-bit) decoder, HEVC/H.265 decoder, AVC/H.264 Baseline, Main, High decoder, VP8 decoder
Camera	1x MIPI CSI (4-lane) with PHY

Power Specifications

Power Consumption	Depending on Configuration
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Operation Systems

Standard Support	Linux Yocto Android Ubuntu
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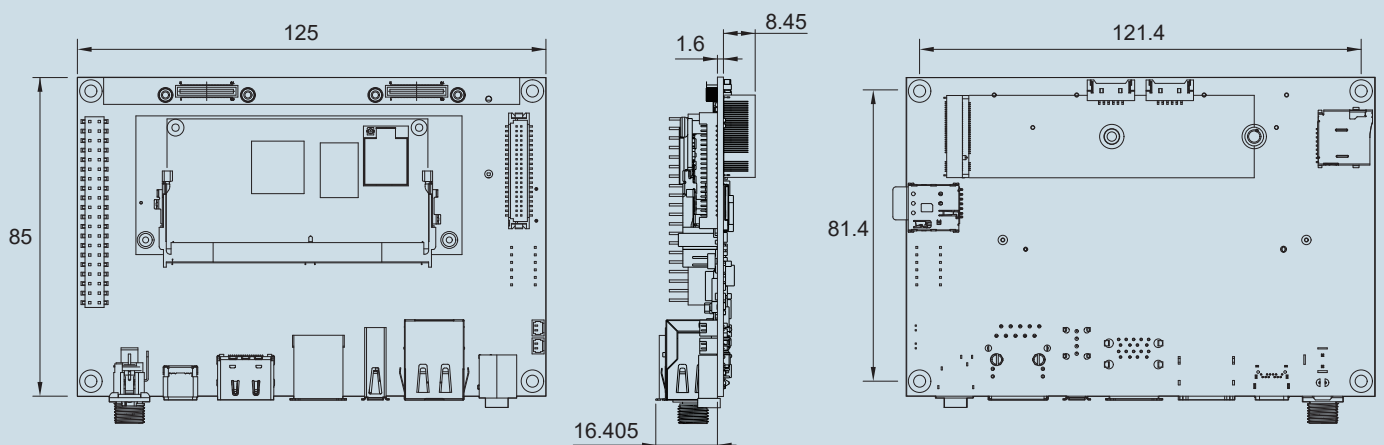
Environmental and Mechanical

Dimensions	125 (W) x 85 (H) x 26.45 (D) mm
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	70 grams

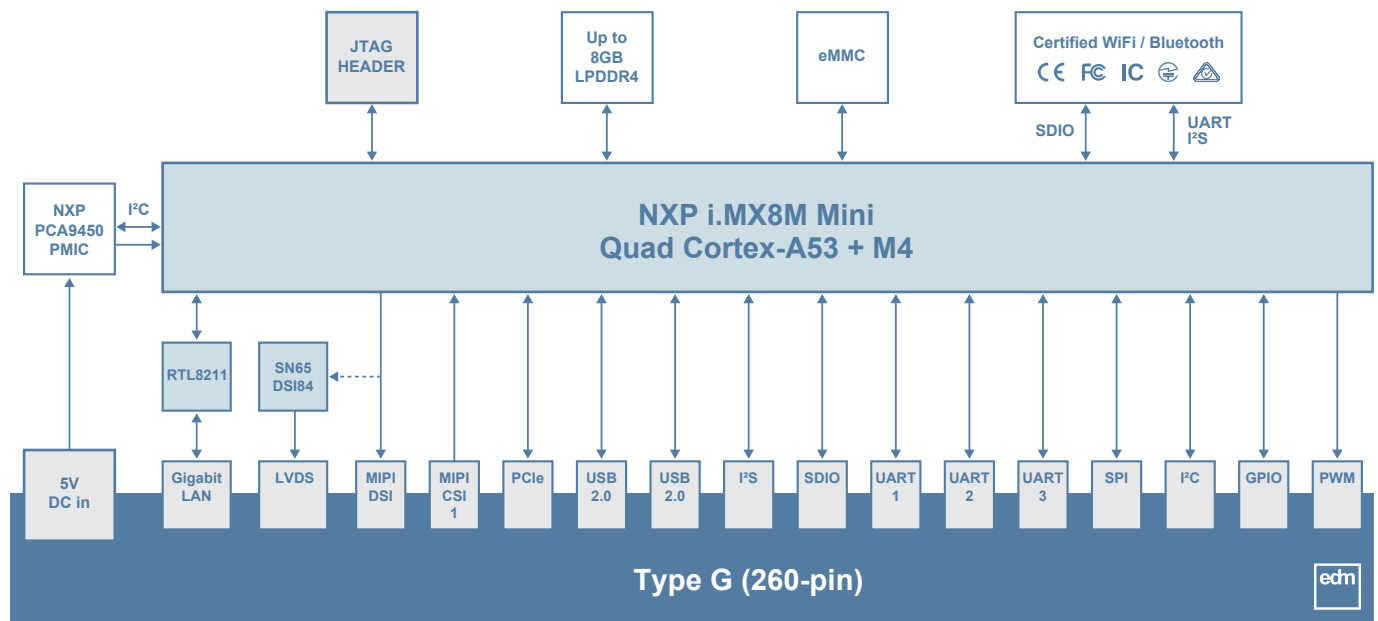
Certification and Compliance

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 CE / FCC / RoHS / REACH directives

Dimensions (units in mm)



Block Diagram



Ordering Information

WB-EDM-G-IMX8M-MINI

Development Kit based around NXP i.MX8M Mini applications processor including camera module, capture card and 10.1 inch display.

