



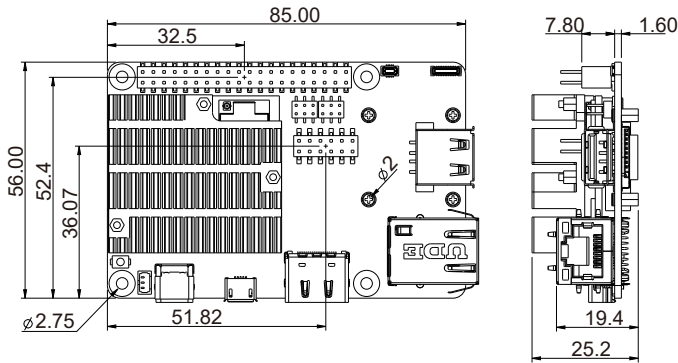
NXP i.MX8M Cortex-A53 + M4

advanced video processing board
for open source community

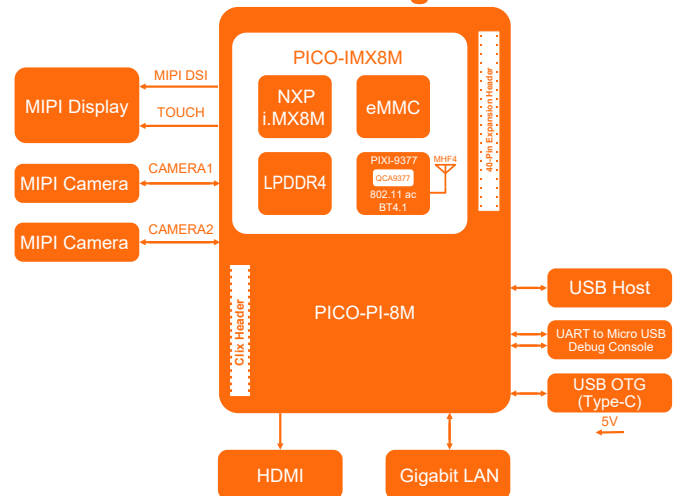
Specifications

PICO-PI-IMX8M	LITE	BASIC	PRO	DEV	DEV-EXTREME
Processor	NXP i.MX8M Quad	NXP i.MX8M Quad	NXP i.MX8M Quad	NXP i.MX8M Quad	NXP i.MX8M Quad
Architecture	ARM Cortex-A53 + M4	ARM Cortex-A53 + M4	ARM Cortex-A53 + M4	ARM Cortex-A53 + M4	ARM Cortex-A53 + M4
Graphic engine	Vivante GC7000Lite	Vivante GC7000Lite	Vivante GC7000Lite	Vivante GC7000Lite	Vivante GC7000Lite
Graphic capabilities	4K + HDR	4K + HDR	4K + HDR	4K + HDR	4K + HDR
PMIC	✓	✓	✓	✓	✓
Memory	1GB LPDDR4	1GB LPDDR4	2GB LPDDR4	3GB LPDDR4	4GB LPDDR4
Storage	8GB eMMC	8GB eMMC	8GB eMMC	16GB eMMC	16GB eMMC
WiFi	-	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
Bluetooth	-	4.1	4.1	4.1	4.1
Gigabit LAN	✓	✓	✓	✓	✓
Audio	✓	✓	✓	✓	✓
HDMI 2.0	✓	✓	✓	✓	✓
MIPI display	✓	✓	✓	✓	✓
Camera interface	✓	✓	✓	✓	✓
Expansion header	✓	✓	✓	✓	✓
USB Host	✓	✓	✓	✓	✓
USB Type-C	✓	✓	✓	✓	✓
Debug interface	✓	✓	✓	✓	✓
Antenna	-	✓	✓	✓	✓
Camera module	-	-	-	✓	✓
5" LCD Display	-	-	-	✓	✓

Dimensional Drawing



Block Diagram



Order Information

Model Name	Description
PICO-PI-IM8M-LITE	NXP i.MX8M Quad / 1GB LPDDR4 / 8GB eMMC
PICO-PI-IMX8M-BASIC	NXP i.MX8M Quad / 1GB LPDDR4 / 8GB eMMC / WiFi + BT
PICO-PI-IMX8M-PRO	NXP i.MX8M Quad / 2GB LPDDR4 / 8GB eMMC / WiFi + BT
PICO-PI-IMX8M-DEV	NXP i.MX8M Quad / 3GB LPDDR4 / 16GB eMMC / WiFi + BT
PICO-PI-IMX8M-DEV-EXTREME	NXP i.MX8M Quad / 4GB LPDDR4 / 16GB eMMC / WiFi + BT

Accessories

5" PCAP Multi Touch LCD Display
TDP-0500-M7201280-PCAP

Camera Module
CAM-OV5645

Voice Assistant Module
VOICEHAT



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