



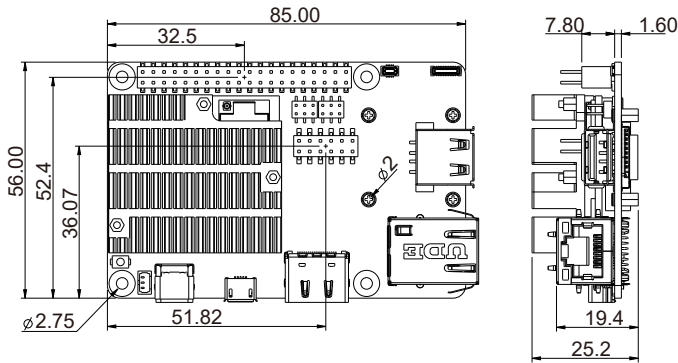
# NXP i.MX8M Cortex-A53 + M4

advanced video processing board  
for open source community

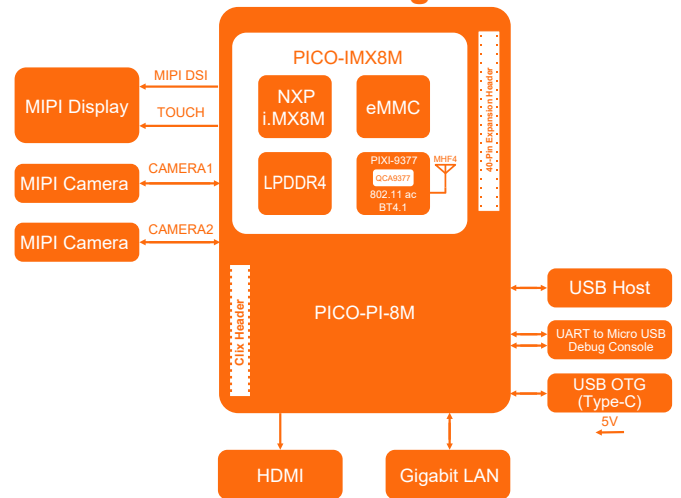
## Specifications

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

## 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

