

# MediaTek X20 Development Board

SKU 102110080



## DESCRIPTION

The new MediaTek X20 development board is based on the Linaro 96Boards standard. At the board's heart is the MediaTek MT6797 SOC. This SOC features the industry's first tri-cluster, deca-core processing architecture.

To enable the widest range of smart gadgets and IoT devices to be prototyped, the board offers an extensive set of interfaces and connectivity peripherals. This includes interface for cameras, touch-screen displays and MMC/SD cards.

Wireless communication is supported with Wi-Fi and Bluetooth. GPS location acquisition is also included.

This state-of-the-art platform provides industry-leading computing performance coupled with unmatched power efficiency. With this board you can prototype solutions for existing and emerging markets including POS, VR, advanced driver assisted systems (ADAS), digital signage, vending machines and much more.

## FEATURES

- MediaTek X20 deca-core processor
- ARM Mali-T880 Graphics Processing Units
- Maximally support 1080P resolution of the screen
- Support the latest Android 6.0 system
- Dual-band AC Wi-Fi, Bluetooth 4.1 and GPS
- A wide variety of expansion ports are included, such as a 60-pin high-speed, 40-pin low-speed, analogue and USB and USB 2.0 micro B to support highly diverse project needs and debugging.

Feature	Specification
	MediaTek MT6797 SOC with:
	Dual-core ARM Cortex-A72 MPCore™ operating at 2.1GHz to 2.3GHz
Application processor	Quad-core ARM Cortex-A53 MPCore™ operating at up to 1.85GHz
	Quad-core ARM Cortex-A53 MPCore™ operating at up to 1.4GHz
	ARM Mail-T880 GPU operating at up to 800MHz
Operating system	Android 6.0
Wi-Fi	802.11 a/b/g/n
Bluetooth	4.1
Location (GNSS)	GPS
USB	2 x USB 2.0 (host mode only)
	USB 2.0 micro B (device mode only)
	40-pin
Low Speed expansion connector	UART, I2C x2, SPI, GPIO x12
	DC power
	60-pin
High Speed expansion connector	4L-MIPI DSI, I2C x2, USB
	2L+4LMIPI CSI
Analog expansion connector	One 16-pin supporting headset, speaker, FM antenna and more
DDR	2GB LPDDR3
eMMC	8GB EMMC5.1
Memory card slot	Micro SD card slot (SD3.0)
Display	HDMI Type A Port (1080p HD @ 30fps)

## DOCUMENTS

If you need any technical support, please contact [service@alpha-star.org](mailto:service@alpha-star.org).