

# HiKey Board

SKU 114990494



- High performance development platform supporting AOSP,Debian,OpenEmbedded
- HiSilicon Kirin 6220 eight-core ARM Cortex-A53 64-bit SoC running at 1.2GHz

## Description

The HiKey board was the first board to be certified 96Boards Consumer Edition compatible. This is a new version in 2GB variants from LeMaker. The board is based around the HiSilicon Kirin 6220 eight-core ARM Cortex-A53 64-bit SoC running at 1.2GHz and delivering over 10,000 Dhrystone VAX MIPS total performance. The SoC also delivers high performance 3D graphics support with its ARM Mali 450-MP4 GPU.

800MHz LPDDR3 DRAM, 8GB eMMC Flash Storage and the standard 96Boards microSD v3.0 socket provide high performance. Flexible storage options and connectivity are available through 802.11a/b/g/n WiFi, Bluetooth 4.0 LE, three high speed USB 2.0 ports (1 OTG), an HDMI 1.3 1080p video output with audio, and Maker, DSI display and CSI camera interfaces. The board is the standard 96Boards credit-card form factor powered by an 8-18V DC 2A power supply.

## Specification

<b>SoC</b>	Kirin 620
<b>CPU</b>	ARM® CortexTM-A53 Octa-core 64-bit up to 1.2GHz (ARM v8 instruction set)
<b>GPU</b>	ARM Mali 450-MP4, supporting 3D graphics processing, OpenGL ES 1.1/2.0, OpenVG 1.1, 2000Mega@500 MHz, 110M triangle@500 MHz, and 32G flops@500MHz
<b>RAM</b>	2GB LPDDR3 SDRAM @ 800MHz
<b>PMU</b>	HI6553V100, MicroSD card slot
<b>Storage</b>	8GB eMMC on board storage
<b>Ethernet Port</b>	USB2.0 expansion
<b>Wireless</b>	Wi-Fi 802.11 b/g/n 2.4GHz, Dual-mode bluetooth and bluetooth low energy, HDMI output up to FHD 1080P
<b>USB</b>	2 x USB2.0 Host, 1 x USB 2.0 OTG
<b>Display</b>	1 x HDMI 1.4 (Type A - full), 1 x MIPI-DSI
<b>Video</b>	1080p@30 fps HD video encoding, supporting 1080p@30 fps HD camera, 1080p@30 fps HD video decoding, Supports H.264, SVC, MPEG1/2/4, H.263, VC-1, WMV9, DivX, RV8/9/10, AVS, VP8
<b>Audio</b>	HDMI output
<b>Camera</b>	1 x MIPI-CSI
<b>Expansion Interface</b>	40 pin low speed expansion connector: +1.8V, +5V, SYS_DCIN, GND, UART, I2C, SPI, PCM, PWM,GPIO x12, 60 pin high speed expansion connector: SDIO, MIPI_DSI, MIPI_CSI
<b>LED</b>	1 x WiFi activity LED (Yellow) , 1 x BT activity LED (Blue), 4 x User LEDs (Green)
<b>Power Button</b>	Button Power on/off Reset the system
<b>Power Source</b>	8V~18V@3A, Plug specification is inner diameter 1.7mm and outer diameter 4.8mm
<b>OS Support</b>	Android 4.2/Linux
<b>Size</b>	85mm x 55mm

## **Part List**

- 1 x Hikey
- 1 x Power Jack Convertor