

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

SoC	Kirin 620
CPU	ARM® Cortex™-A53 Octa-core 64-bit up to 1.2GHz (ARM v8 instruction set)
GPU	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
RAM	2GB LPDDR3 SDRAM @ 800MHz
PMU	HI6553V100, MicroSD card slot
Storage	8GB eMMC on board storage
Ethernet Port	USB2.0 expansion
Wireless	Wi-Fi 802.11 b/g/n 2.4GHz, Dual-mode bluetooth and bluetooth low energy, HDMI output up to FHD 1080P
USB	2 x USB2.0 Host, 1 x USB 2.0 OTG
Display	1 x HDMI 1.4 (Type A - full), 1 x MIPI-DSI
Video	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
Audio	HDMI output
Camera	1 x MIPI-CSI
Expansion Interface	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
LED	1 x WiFi activity LED (Yellow) , 1 x BT activity LED (Blue), 4 x User LEDs (Green)
Power Button	Button Power on/off Reset the system
Power Source	8V~18V@3A, Plug specification is inner diameter 1.7mm and outer diameter 4.8mm
OS Support	Android 4.2/Linux
Size	85mm x 55mm

Part List

- 1 x Hikey
- 1 x Power Jack Convertor