

## Cubietruck (Cubieboard 3)

- The third version has a new and larger PCB layout and features the following hardware
  - SoC: Allwinner A20
  - CPU: ARM Cortex-A7 @ 1 GHz dual-core
  - GPU: Mali-400 MP2
  - display controller: unknown, supports HDMI 1080p
  - 2 GiB DDR3 @ 480 MHz
  - 8 GB NAND flash built-in, 1x microSD slot, 1x SATA 2.0 port (2.5" laptop harddrive)
  - 10/100/1000 RTL8211E Gigabit Ethernet
  - 2x USB Host, 1x USB OTG, 1x CIR.
  - S/PDIF, headphone and HDMI audio out, mic and line-in via extended pins
  - Wi-Fi and Bluetooth on board with PCB antenna (Broadcom BCM4329/BCM40181)
  - 54 extended pins including I<sup>2</sup>C, SPI
  - Dimensions: 11 cm x 8 cm

## Operating systems

- Debian
- Android
- ArchLinux
- OpenSuse
- FreeBSD

## Open hardware

- all software is free or open source
- SATA harddrive
- internal NAND memory 8GB, you can flash, or use uSD card for the OS
  - OS can be configured to boot from any of the three devices
- can be bought for £72.00 at the time of writing
- slower than the U3 (and less expensive)

## Cubieboard 8

- On May 4, 2014 CubieTech announced the Cubieboard 8
- based on an Allwinner A80 SoC (quad Cortex-A15, quad Cortex-A7 big.LITTLE)
  - replacing the Mali GPU with a PowerVR GPU.
- SoC: Allwinner A80
  - CPU: 4x Cortex-A15 and 4x Cortex-A7 implementing ARM big.LITTLE
  - GPU: PowerVR G6230 (Rogue)
  - video acceleration: A new generation of display engine that supports H.265, 4K resolution codec and 3-screen simultaneous output
  - display controller: unknown
  - USB 3.0