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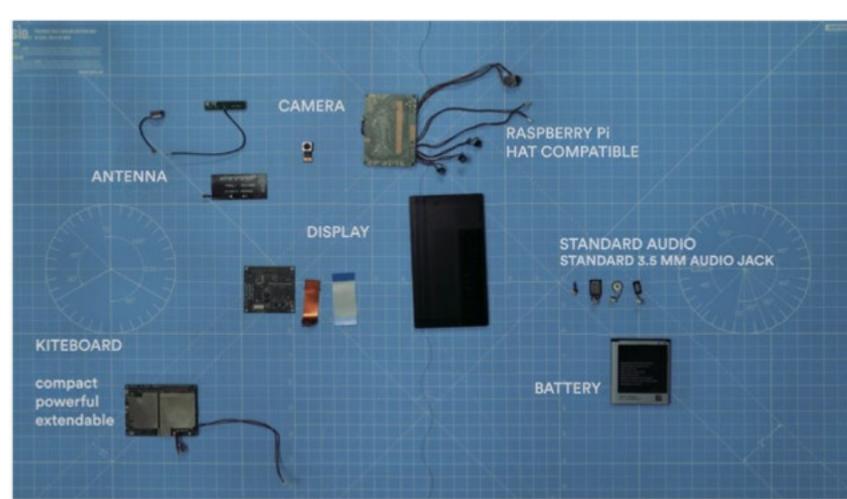
APRIL 24, 2018BY CNXSOFT - NO COMMENTS

## Kite is an Open Source Hardware Android Smartphone Powered by Snapdragon 450 Processor (Crowdfunding)

Kite is an open source hardware Android phone kit specifically targeting makers which you can assemble yourself into a Kitephone.

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The phone is based on a Qualcomm Snapdragon 450 mainboard (Kiteboard v2), and comes with a 720p touchscreen display module, a 12MP camera, antennas, buttons, a 3,000 mAh battery, and a Raspberry Pi HAT compatibility board to optionally interface to external hardware.



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## Kiteboard v2 specifications:

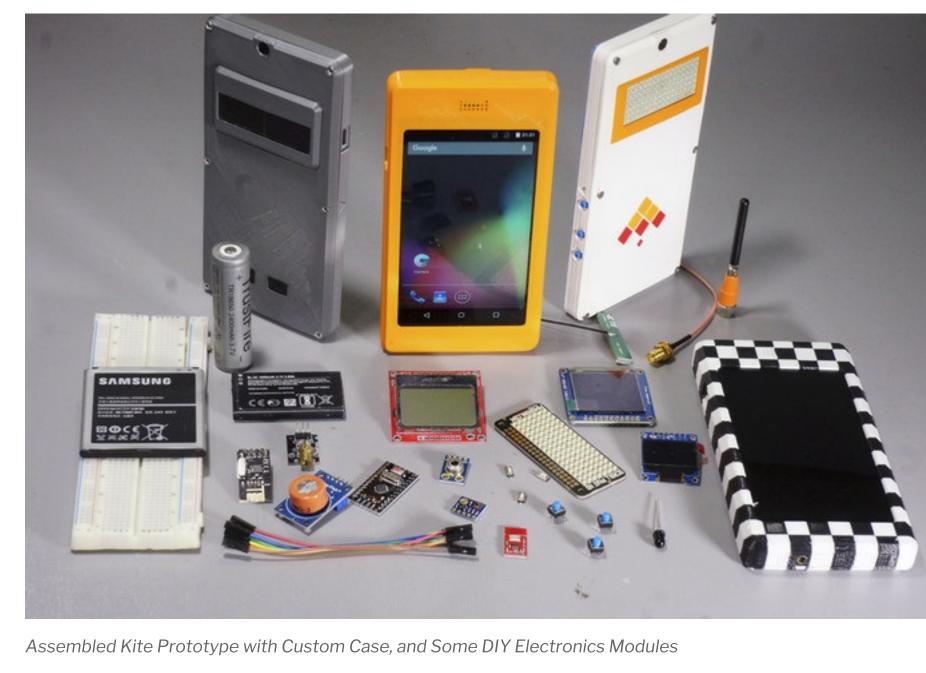
- SoC Qualcomm Snapdragon 450 octa-core Arm Cortex A53 @ 1.8 GHz with Adreno 506 GPU
- System Memory 2 GB RAM • Storage – 16 GB storage + microSD card slot
- Connectivity
  - Cellular
    - Two variant North America with

• LTE Cat. 6/3G/2G, 2x nano SIM slots (dual-SIM dual standby)

- LTE FDD Bands: 2,4, 5, 7, 12, 13, 14, 25, 26
  - LTE TDD Bands: 41 WCDMA 850, 1700, 1900, 2100
  - GSM 850, 1900
  - Rest of the World (Europe, Russia, etc...)
  - LTE FDD Bands: 1, 3, 5, 7, 8, 20
  - LTE TDD Bands: 38, 39, 40, 41
- WCDMA 850, 900, 1900, 2100 • GSM 850, 900, 1800, 1900Cellular
- WiFi a/b/g/n/ac
- BT 4.2 LE
- USB USB 3.0 OTG port

• Low power GPS engine

- Sensor 9 axis eCompass, accelerometer & gyroscope • Interfaces – 2x display interface, 2x camera interfaces
- Fast charging support for LiPo batteries



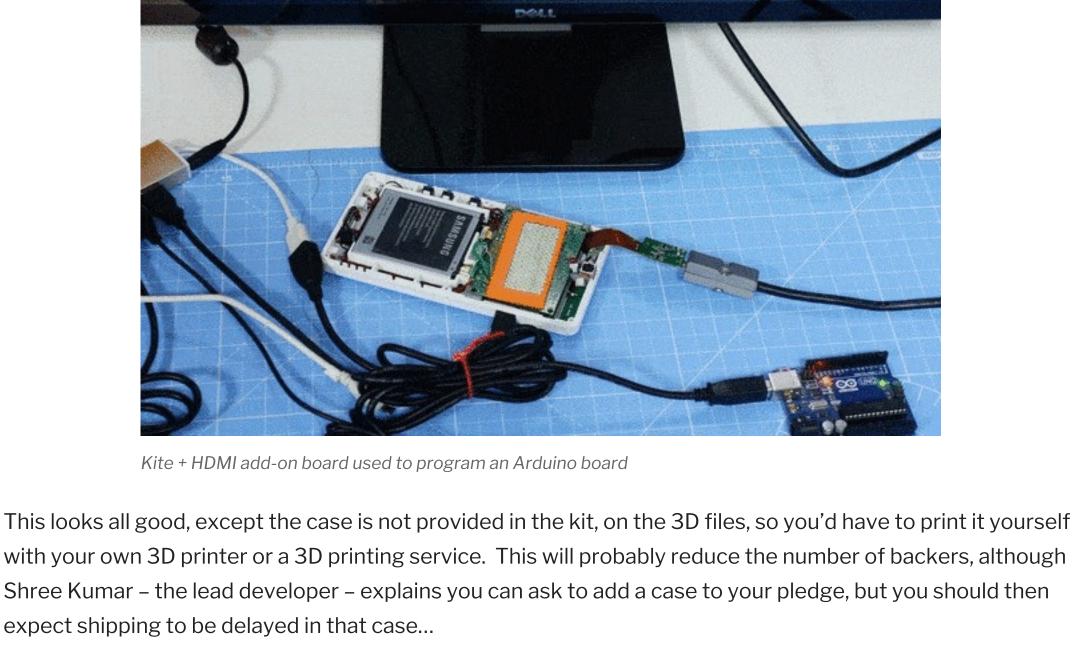
A single display and camera is used in the kit, so the extra interfaces are for advanced users. The phone will

run Android 7.1 with F-Droid app store (no GMS), and most resources used to make the phone will be made available publicly, include KiCad schematics and PCB layout, Gerber files, 3D printable designs compatible with FreeCAD, and Android source code. There will be some binary blobs for GPU, model, WiFi & Bluetooth, GPS, camera, etc... 24-hours of video tutorials will be provided showing how to assemble the phone, and customize it. The video gives an overview of the phone, and shows some of the cool things you can do with the phone.

• Using the phone as a desktop machine using HDMI add-on board • PianoPhone with a small display showing a piano and an I2S amplifier • Phone with braille keyboard

If you don't have time to watch the short video above, some of those projects include:

• Dual display game console



If you are interested, Kite has just launched on Kickstarter with a \$941,000 funding goal. Pledges for the complete kit start at \$274 plus shipping with delivery planned for January 2019. Backers will receive a shipping survey in October to add things like an extra display, HDMI board, extra camera, etc.., and potentially a 3D printed case. Shipping add \$18 to \$40 depending on the destination, and if your country is not listed you can contact them to add it.

I also discussed with Shree over email about the potential for purchasing spare parts and long term supply

dissassemble it. After a quick check, he explained it should be possible to make the kit available till 2022 or

commitment, so that users can repair their phone themselves, as they'll know how to assemble and

more, and if the project is popular enough, an upgraded baseboard may follow. 



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