ASUS TINKER BOARD

DREAM, INVENT, INSPIRE

How to Get it Start (1/3)

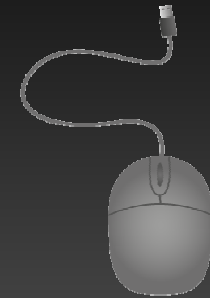**WHAT YOU WILL NEED**
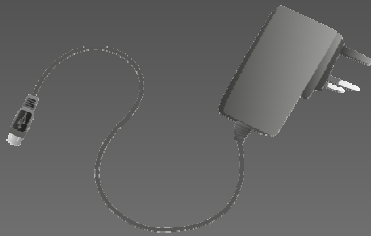
MONITOR
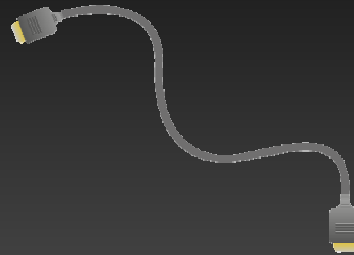
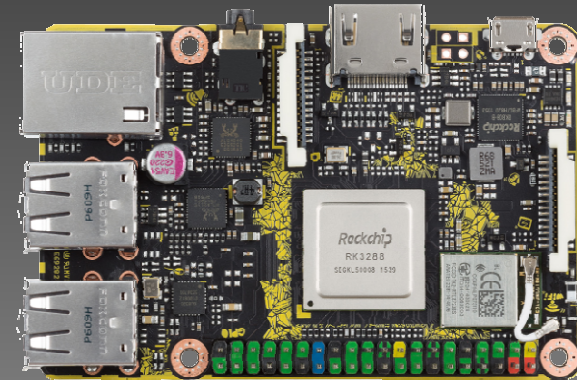**HDMI CABLE**

KEYBOARD

MOUSE

POWER SUPPLY

MICRO SD CARD
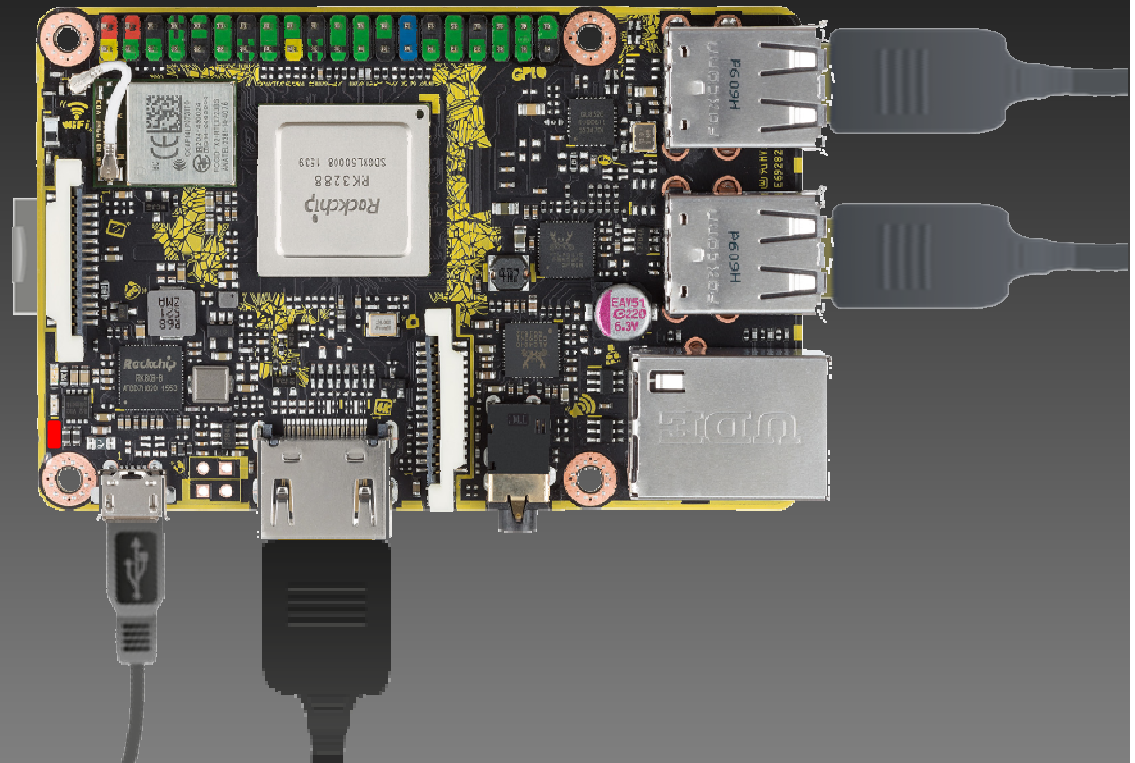
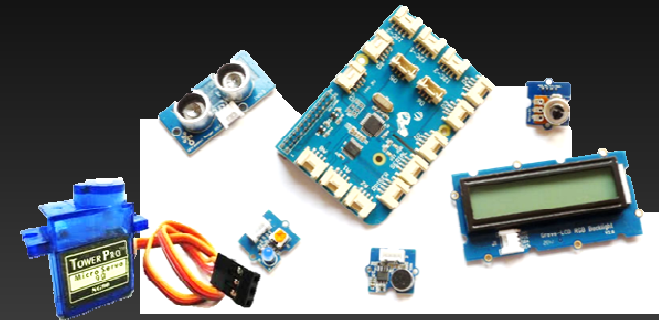*Besides the board, all the items have to purchase separately.

How to Get it Start (2/3)

- Insert the SD card with OS Image

- Connect HDMI Cable to Monitor

- Connect USB Keyboard & Mouse

- Connect USB Power Supply

- Boot UP

How to Get it Start (3/3)

- Connect to the peripherals that you need for your creation

- Using C / Python / Scratch…to code scripts

- Start make the creation

FAQ (1/3)

Question. What's open source hardware?
Answer. "Open hardware," or "open source hardware," refers to the design specifications of a physical object which are licensed in such a way that said object can be studied, modified, created, and distributed by anyone..

Question. Does the board use a new form factor? Who made this dimension?
Answer. As a open source hardware, there should not a standard form factor available on the market, and usually the board form factor, or even the PCB shape depends on the project's usage scenario. It all relay on what users want to create.

Question. What's the main IC on this board? What's the performance and why this SoC?
Answer. The main IC is ROCKCHIP RK3288. It's a system-on-chip IC integrated lots of functions inside, including a quad-core cortex-A17 1.8G processor, Mali-T764 GPU with 4K support. And the SoC performance is pretty higher as well, for example, the Antutu benchmark score is around 37K. The high performance supports this product running the OS faster and smoother, also create the possibilities for some usage scenarios that required strong computing power, for example, a VR headset was shown at the MWC(Mobile World Congress) exhibition this year.
https://www.youtube.com/watch?v=NH7NcrCjWlM

Question. Can I build a PC with this board? What're the supported OS? Can I run windows on it?
Answer. Yes, this product mainly supports Linux-based OS, like Debian, and we'll release the kernel file and datasheet for users to create more possibilities for other OSs. But windows OS is not supported.

Question. So, this is ASUS pi?
Answer. You can expect more on us. Raspberry PI has been in the market for so long, we're here to expand users' choices with more options. And this board has 4K support, higher SoC performance, faster Ethernet transmission, and flexibility for the memory size, I believe users will create some more different creations based on these features.

FAQ (2/3)

Question. What's the 40pin onboard header for?
Answer. This board provides several 5V/3.3V/I2C/SPI/UART/PWM signals allowing to connect below modules available on the market.

Question. Where can I get the peripherals, like chassis, power adapter, cable, sensor and the others?
Answer. There're lots of e-tailers like ADAFruit, SPARK FUN, SEEED STUDIO…, and they focus on providing the peripherals including chassis, power cable, display panel for the open source hardware.

Question. What's the package contents?
Answer. A quick start guide, a ESD shielding bag, and a Tinker board inside of the packing box.

Question. How about the power consumption for this board? And the max power consumption?
Answer. It's around 5W to 11W depends on the CPU loading.

FAQ (3/3)

Question. What's the max power consumption?
Answer. Idle with 1080P HDMI out: 2.25Watt, without HDMI: 2Watt. The max power consumption is around 5 Watt.

Question. Which Linux distributions are compatible with our MB? Is it 100% software compatible with all Raspberry Pi OS?
Answer. ASUS will release our own operating system based on Debian, and we'll also arrange this board to 3rd party alliance for wider OS support, such as ubuntu, openSUSE....
But due to the SoC solution is different as RPi, Tinker Board can't install all the Raspberry Pi OS.

Question. Will we have a dedicated developer page / community were users can share their programming work?
Answer. Yes, but it's still under discussing with HQ MKT.

If there's any questions, please feel free to let us know, thank you!

Thank You!