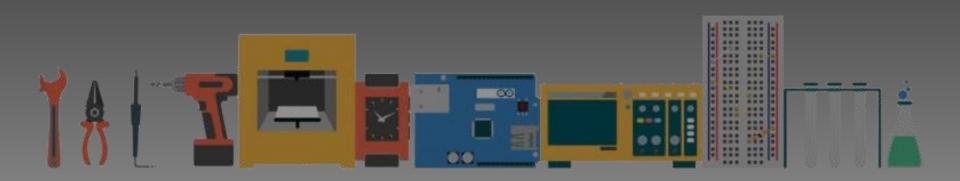


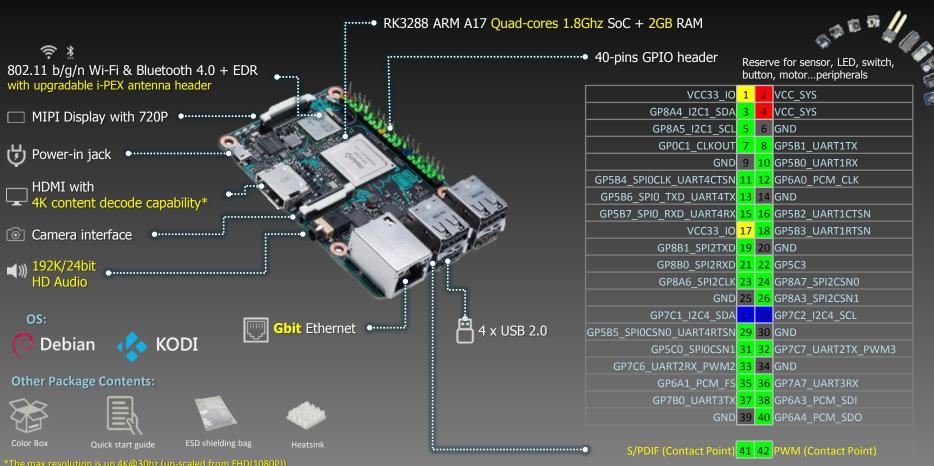
# **Design Concept**

**Together We Make** is Tinker Board's underpinning concept: the idea that technology and users work together in harmony to create great things. Tinker Board is the little PCB that taps into the revived obsession with DIY, offering a new generation of makers a way to realize their dreams.





### **Product Overview**



## **Suitable Scenario**



### - For MAKER

• A powerful board that highly compatible with current solution and peripherals available in the market



### - For EDUCATION

- Electronics learning
- Programming/coding study



#### - For Commercial

Low power consumption with high performance platform





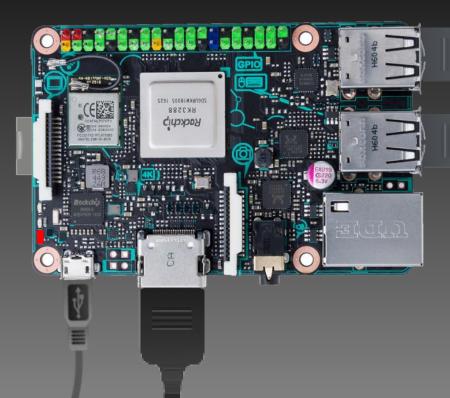




### How to Get it Start

Tinker Board is a capable little computer which can be used in electronics projects, and for many of the things that your desktop PC does

- Requirement:
  - 1 x Monitor with HDMI cable
  - 1 x Keyboard/Mouse set
  - 1 x MicroSD card with 8GB capacity
  - 1 x Micro USB AC adaptor\*
- Download the available OS and burn into MicroSD card
- Connect HDMI Cable to Monitor
- Connect USB Keyboard & Mouse
- Connect USB Power Supply
- Boot UP



## Tinker OS and its Usage Scenarios



Debian is a free operating system (OS) for your computer. An operating system is the set of basic programs and utilities that make your computer run.











**Kodi** media center, formerly known as XBMC™ Media Center, is an award-winning free and open source cross-platform software media player and entertainment hub for digital media for **HTPCs** (Home theater PCs).





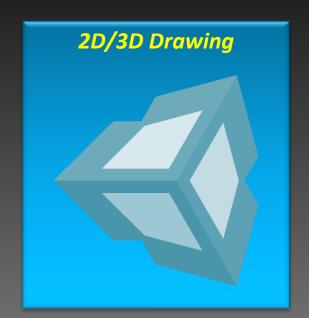
Coming Soon~



## Learn More

Besides the entry product information, Tinker Board will also release the schematics, mechanical drawing, GPIO API for power users' interesting creations.

























# **Detail Product Specification**

	TINKER BOARD/ <mark>2GB</mark>
Processor	Cortex-A17 Quad-core 1.8GHz
GPU	ARM Mali-T764 GPU supports Support OpenGL ES1.1/2.0/3.0,
	OpenVG1.1, OpenCL, DirectX11
Display	1 x HDMI with 4K/30fps (upscaled from 1080p)
	1 x 15-pin MIPI DSI supports up to HD
Memory Size	Dual-CH LPDDR3 2GB
Storage	Micro SD(TF) card slot
Connectivity	1 x GB LAN
	1 x wireless 802.11 b/g/n & BT 4.0 + EDR
Audio	RTL HD Codec with 1 x 3.5mm audio jack
USB	4 x USB 2.0 ports
Internal Headers	1 x 40-pin headers includes:
	- up to 28 x GPIO pins
	- up to 2 x SPI bus
	- up to 2 x I2C bus
	- up to 4 x UART
	- up to 2 x PWM
	- up to 1 x PCM/I2S
	- 2 x 5V power pins
	- 2 x 3.3V power pins
	- 8 x ground pins
	1 x 2-pin contact points includes:
	- 1 x PWM signal
	- 1 x S/PDIF signal
Power Connector	Micro USB (5V/2~2.5A)
OS Support	Debian/KODI
Dimension	3.37" x 2.125"

