

# TINKER BOARD 2 TINKER BOARD 2 S

ARM SBC, Rockchip RK3399 Hexa-core, LPDDR4 RAM, eMMC, HDMI, MIPI-DSI, MIPI-CSI, 12-19V DC in



## Features

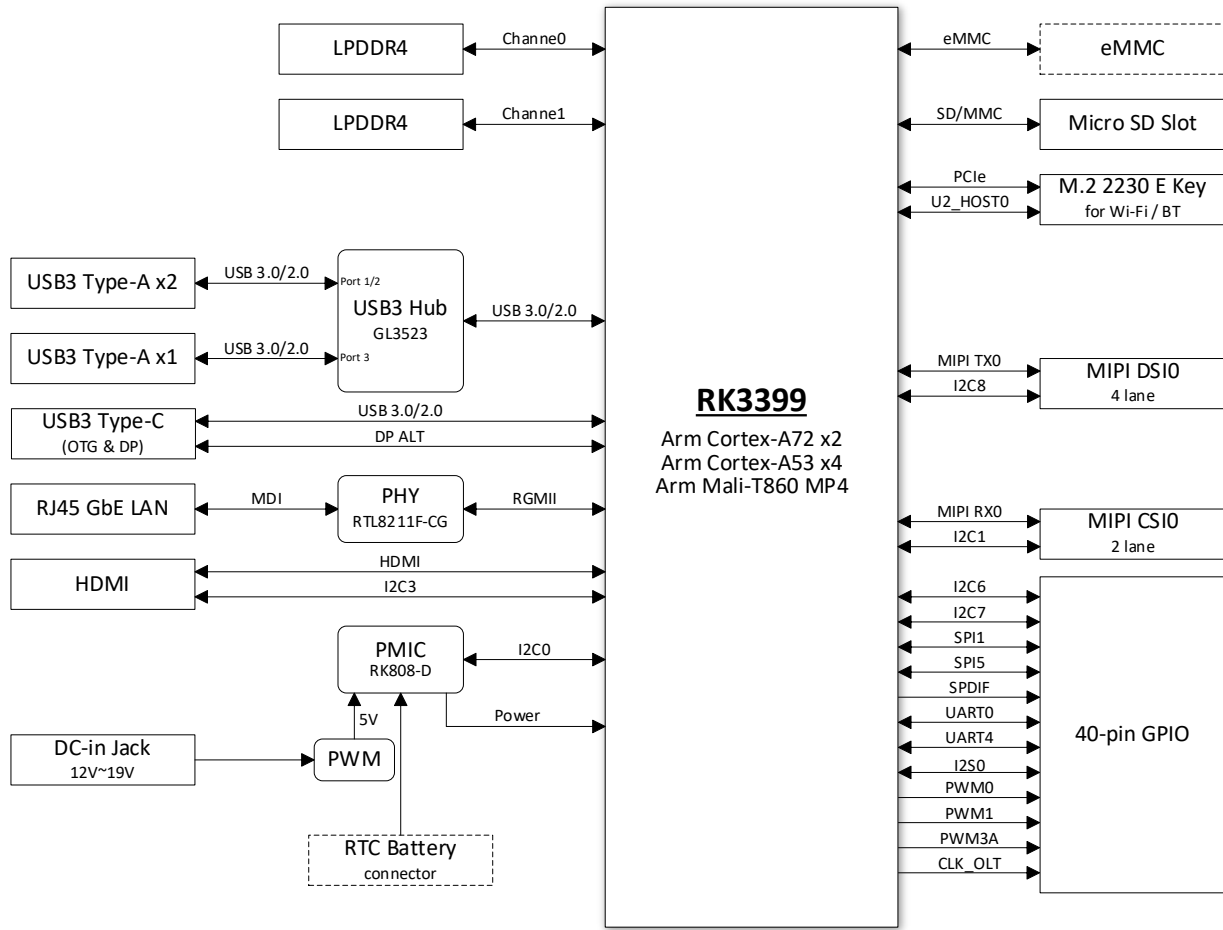
- Arm® big.LITTLE™ A72+A53 Hexa-core SoC
- Multiple MIPI-CSI & DSI / HDMI / Type-C (DP)
- USB 3.0 / Wi-Fi 802.11ac / BT 5.0 / GPIO
- 12V~19V DC-in offers stable power delivery
- Linux & Android supported

## Specifications

SoC	Rockchip RK3399
CPU	Dual-core Arm® Cortex®-A72 @ 2.0 GHz + Quad-core Arm® Cortex®-A53 @ 1.5 GHz
GPU	Arm® Mali™-T860 MP4 GPU @ 800 MHz
Memory	Dual-CH LPDDR4 2/4GB
Storage	16GB eMMC* 1 x Micro SD (TF) card slot (push & pull)
Display	1 x HDMI with CEC hardware ready 1 x Type-C (DP Alt Mode) 1 x 22-pin MIPI DSI (4 lane)
USB	3 x USB3.2 Gen1 Type-A ports 1 x USB3.2 Gen1 Type-C OTG port
Camera Interface	1 x 15-pin MIPI CSI-2 (2 lane)
Connectivity	1 x RTL8211F-CG GbE LAN 1 x 802.11 a/b/g/n/ac & Bluetooth 5.0 (2T2R)
Audio	1 x HDMI audio, 1 x I2S (40-pin), 1 x S/PDIF (40-pin)
Internal I/O	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 2 x UART - up to 3 x PWM - up to 1 x PCM/I2S - up to 1 x S/PDIF TX - 2 x 5V power pins - 2 x 3.3V power pins - 8 x ground pins 1 x 2-pin Recovery header 1 x 2-pin Power-on header 1 x 2-pin Reset header 1 x 2-pin Debug UART header 1 x 2-pin DC Fan header 1 x 2-pin RTC Battery header
Power requirement	1 x 12~19V DC input (5.5/2.5 mm DC Jack)
Operation Temperature	0~60°C
Non-Operation Temperature	-40~85°C
Relative Humidity	0%~85%
Operating System Support	Debian 9 / Android 10
Form Factor	3.37" x 2.125" (85 x 56 mm)

\*eMMC by SKU

# Block Diagram



## Ordering Information

PN	Model Name	Description
90ME01N0-*	Tinker Board 2/2G	ARM SBC, Rockchip RK3399 Hexa-core, 2GB LPDDR4, HDMI, MIPI-DSI, MIPI-CSI, 12~19V DC in
90ME01P0-*	Tinker Board 2 S/2G/16G	ARM SBC, Rockchip RK3399 Hexa-core, 2GB LPDDR4, 16GB eMMC, HDMI, MIPI-DSI, MIPI-CSI, 12~19V DC in

## Packing List

Item#	Description
1.	2 x Wi-Fi/BT antenna cable
2.	1 x Heatsink
3.	1 x Quick Start Guide

## Optional Accessories

Item#	Description
	Power adapter 45w DC 19V 2.37A (5.5/2.5mm)
	Fanless Case Aluminum Fanless Case
	MIPI Convert Board MIPI to LVDS/eDP converter board

\*Accessories will be shipped separately