

TINKER SYSTEM 2

Arm SBC with Aluminum Case, Rockchip RK3399 Hexa-core, LPDDR4 RAM, eMMC, HDMI-CEC, 12~19.5V DC-in



Features

- Fanless design: Great heat conductive with fanless support
- Certified with RF Regulation: Wi-Fi (CE, FCC, VCCI, BSMI)
- High peripheral extensibility: Reserved I/O for antenna and accessory extension
- 12V~19.5V DC-in offers stable power delivery
- Linux & Android supported

Specifications

Mechanism	Material	Aluminum
Processor	SoC	Rockchip RK3399
	CPU	2 x Arm® Cortex®-A72 @ 2.0 GHz + 4 x Arm® Cortex®-A53 @ 1.5 GHz
	GPU	Arm® Mali™-T860 MP4 GPU @ 800 MHz
Memory	Technology	Dual-CH LPDDR4 On-board
	Size	2/4GB*
Storage	eMMC	16/32GB*
Ethernet	Speed	10/100/1000Mbps
	Controller	1 x Realtek RTL8211F-CG
Wireless	Speed	802.11 a/b/g/n/ac & Bluetooth 5.0
	Module	1 x Realtek RTL8822CE
	Antenna Connector	2 x I-PEX MHF® 4 (2T2R)
Display	HDMI	1, Supports up to 4096 x 2160 @ 60 Hz (w/ Audio)
	Type-C (DP)	1, Supports DP 1.2 up to 4096 x 2160 @ 60 Hz
	MIPI DSI	1, Supports 4 lane up to 6 Gbps, 1920 x 1080 @ 60 Hz (22-pin)
	Multi Display	HDMI+Type-C, HDMI+MIPI DSI, Type-C+MIPI DSI
Camera	MIPI CSI-2	1, Supports 2 lane up to 3 Gbps (15-pin)
Rear I/O	USB 3.2 Gen1 Type-A	3
	USB 3.2 Gen1 Type-C OTG	1
	Ethernet	1
	HDMI	1
Internal I/O	Recovery Header	1 (2-pin)
	Power-on Header	1 (2-pin)
	Reset Header	1 (2-pin)
	Debug UART Header	1 (2-pin)
	DC Fan Header	1 (2-pin)
	RTC Battery Header	1 (2-pin)
Power	Power Input	12 to 19.5 VDC, barrel jack (5.5/2.5 mm)
Environment	Operating Temperature	0~40°C
	Storage Temperature	-40~85°C
	Relative Humidity	0 to 85% (non-condensing)
Others	Operating System	Linux Debian 10, Android (AOSP) 11
	Dimensions	3.583" x 2.638" x 1.772" (91 x 67 x 45 mm)

*Specifications by SKU

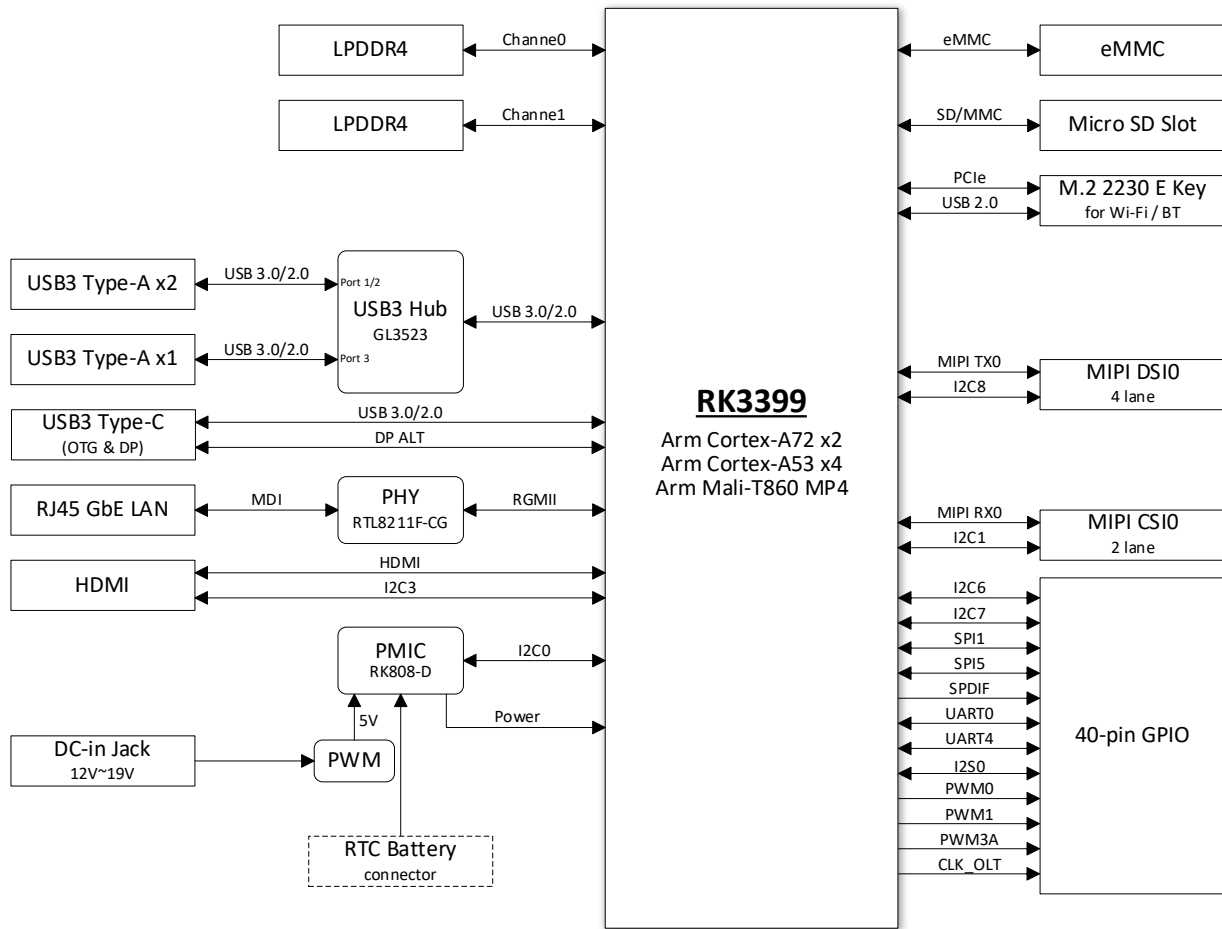
Ordering Information

PN	Model Name	Description
90AE00U1-M00010	TINKER SYSTEM 2-2G/16G	TB2 BOX/B2/A/0/0/001/0/0/0/0/2/JB/0/0/0/0

Packing List

Item#	Description
1.	1 x Tinker System 2 (w/ I/O Dust Covers)
2.	2 x Wi-Fi Antennas
3.	1 x Quick Start Guide

Block Diagram



Optional Accessories

Item#	Description
45W Adapter	DC 19V/2.37A or 19.5V/2.31A (5.5/2.5mm)
65W Adapter	DC 19V/3.42A or 19.5V/3.33A (5.5/2.5mm)
Power Cord	
VESA Mount kit	
Wall Mount kit	
Din Rail Kit	By Request

*Accessories will be shipped separately

Power Adapter 45W

DC 19V/2.37A or 19.5V/2.31A (5.5/2.5mm)

Ordering Information

PN	Model Name	Description
90AN00D0-M0AAY0	45W ADAPTER/US	United States
90AN00D0-M0BAY0	45W ADAPTER/BR	Brazil
90AN00D0-M0CAY0	45W ADAPTER/CN	China
90AN00D0-M0EAY0	45W ADAPTER/EU	European Union
90AN00D0-M0EAY1	45W ADAPTER/UK	United Kingdom
90AN00D0-M0EAY2	45W ADAPTER/CH	Switzerland
90AN00D0-M0EAY3	45W ADAPTER/ZA	South Africa
90AN00D0-M0EAY4	45W ADAPTER/IL	Israel
90AN00D0-M0IAY0	45W ADAPTER/IN	India
90AN00D0-M0JAY0	45W ADAPTER/JP	Japan
90AN00D0-M0SAY0	45W ADAPTER/AR	Argentina
90AN00D0-M0TAY0	45W ADAPTER/TW	Taiwan
90AN00D0-M0UAY0	45W ADAPTER/HK	Hong Kong
90AN00D0-M0UAY1	45W ADAPTER/AU	Australia
90AN00D0-M0UAY2	45W ADAPTER/KR	Korea

Power Adapter 65W

DC 19V/3.42A or 19.5V/3.33A (5.5/2.5mm)

Ordering Information

PN	Model Name	Description
90AN00C0-M0AAY0	65W ADAPTER/US	United States
90AN00C0-M0BAY0	65W ADAPTER/BR	Brazil
90AN00C0-M0CAY0	65W ADAPTER/CN	China
90AN00C0-M0EAY0	65W ADAPTER/EU	European Union
90AN00C0-M0EAY1	65W ADAPTER/UK	United Kingdom
90AN00C0-M0EAY2	65W ADAPTER/CH	Switzerland
90AN00C0-M0EAY3	65W ADAPTER/ZA	South Africa
90AN00C0-M0EAY4	65W ADAPTER/IL	Israel
90AN00C0-M0IAY0	65W ADAPTER/IN	India
90AN00C0-M0JAY0	65W ADAPTER/JP	Japan
90AN00C0-M0SAY0	65W ADAPTER/AR	Argentina
90AN00C0-M0TAY0	65W ADAPTER/TW	Taiwan
90AN00C0-M0UAY0	65W ADAPTER/HK	Hong Kong
90AN00C0-M0UAY1	65W ADAPTER/AU	Australia
90AN00C0-M0UAY2	65W ADAPTER/KR	Korea