

Tinker Board S

Quad-core ARM processor, onboard 2GB memory & 16GB eMMC, HDMI, GbE LAN, Multiple USB

Features

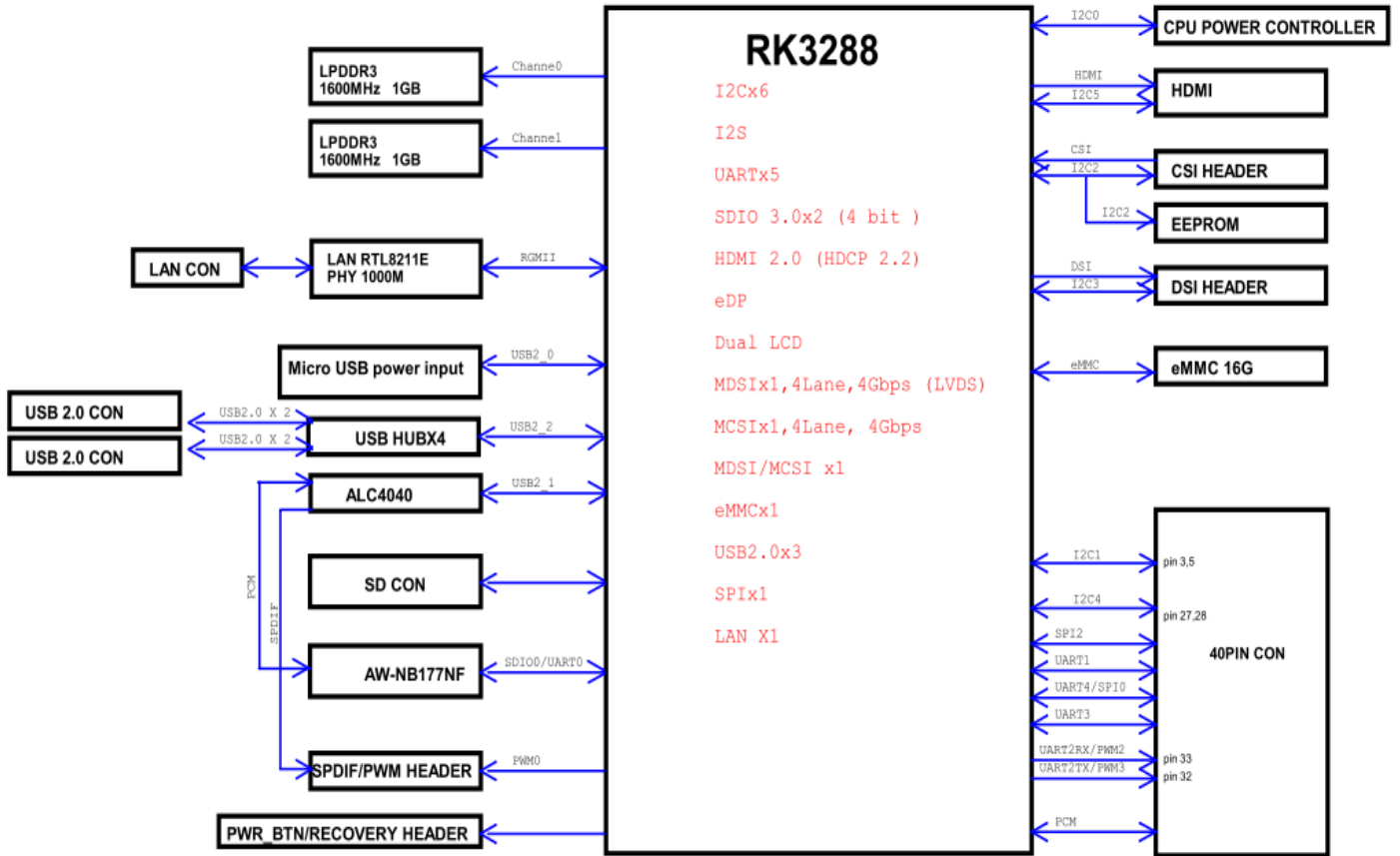
- Fully Embedded Design
- Extensive OS Support (Debian 9/Android 6 & 7)
- Energy-Efficient, Fanless Design
- Name-card Sized, Powerful Edge Device



Specifications

Processor	Rockchip RK3288 Cortex-A17 Quad-core SoC
GPU	ARM Mali-T760 MP4 GPU
Display	1 x HDMI 1 x 15-pin MIPI DSI supports up to HD
Memory Size	Dual-CH LPDDR3 2GB
Storage	16GB eMMC onboard / Micro SD(TF) card slot
Connectivity	RTL8211E-VB-CG GB LAN 802.11 b/g/n wireless & BT 4.0 + EDR
Audio	RTL ALC4040 Codec with 1 x 3.5mm audio jack *Supports audio jack plug-in detection
USB	4 x USB 2.0 ports
Camera Interface	1 x 15-pin MIPI CSI slot for camera
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 w/ Slave Mode support - 2 x 5V power pins - 2 x 3.3V power pins - 8 x ground pins 1 x 2-pin Power-on header 1 x 2-pin eMMC recovery header 1 x 2-pin contact points includes: - 1 x PWM signal - 1 x S/PDIF signal
Power Connector	5V/3A Micro USB power input
Operation Temperature	0~50°C
Non-Operation Temperature	-40~85°C
Relative Humidity	0%~85%
Operating System Support	Debian 9 / Android 6 & 7
Form Factor	3.37" x 2.125"

Block Diagram




Ordering Information


Part Number	Description
90ME0031*	Tinker Board S

Optional Accessories


Part Number	Description
90ME005*	Power Supply Unit



90ME005*	Open Case DIY Kit
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90ME006*	Aluminum Fanless Case
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The board needs to be purchased separately.

Packing List

Part Number	Description
13071-02380000	Passive heatsink
15060-88910000	Quick start guide