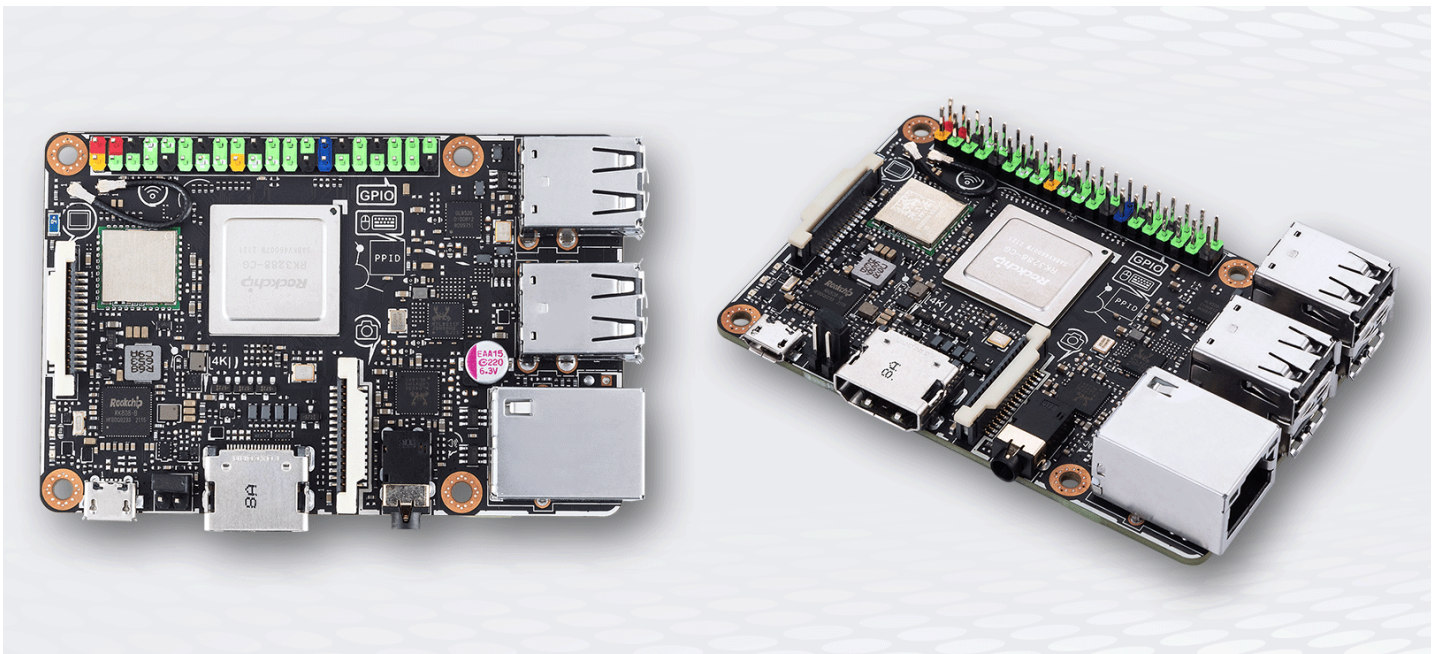


Tinker Board S R2.0 Data Sheet

ARM®-Based SBC with Enhanced and Better Compatibility

The new and improved Tinker Board S R2.0 is a single board computer (SBC) that offers greater durability, better stability, and an overall improved user experience for DIY enthusiasts and makers everywhere.



Class-Leading Performance

With its powerful and modern quad-core ARM®-based processor - the Rockchip RK3288-CG.W - Tinker Board S R2.0 series offers significantly improved performance versus other popular SBC boards. Powered by an ARM®-based Mali™ - T764 GPU, Tinker Board S R2.0's GPU, and fixed-function processors allow for a wide range of uses, including high-quality media playback, gaming, computer vision, gesture recognition, image stabilization, and processing, as well as computational photography and more.

* HD & UHD video playback at 30 fps on Tinker Board S R2.0 is currently only available via the included media player. Third-party video players and applications may not offer hardware acceleration, which will result in limited or unstable playback performance.

Specifications

CPU	Rockchip Quad-Core RK3288-CG.W processor
Memory	2 GB Dual channel DDR3
Graphic	Integrated graphics processor ARM® Mali™-T764 GPU*1
Storage	16 GB eMMC Micro SD (TF) card slot
LAN	RTL GB LAN
Wireless Data Network	802.11 b/g/n, Bluetooth V4.2 + EDR
Audio	RTL ALC4030U CODEC
USB Ports	4 x USB 2.0
Internal I/O Ports	1 x 40-pin headers: <ul style="list-style-type: none"> – 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 5 V power pins – 2 x 3.3 V power pins – 8 x ground pins 1 x 2-pin contact pin: <ul style="list-style-type: none"> – 1 x PWM – 1 x S/PDIF 1 x 15-pin MIPI DSI 1 x 15-pin MIPI CSI
Accessories	Passive heatsink*2 User manual
Form Factor	3.37 inch x 2.125 inch (8.55 cm x 5.4 cm)
Weight	55 g
Environment	Operation temperature: 0°C ~ 60°C Non-operation temperature: -40°C ~ 85°C Non-operation humidity: 0% ~ 85% (Non-condensing)
OS Support	Debian 10/Android 11
Note	*1. The ARM® Quad-Core Mali GPU supports max. resolution of 4 K @ 30 Hz with H.264/H.265 hardware decoder. *2. Do not touch the SoC or heatsink surface directly to prevent possible burn injury.

Arrow Offers a Comprehensive Range of Lifecycle Services for Your ASUS Tinker Boards

From hardware to software, integration, and systems, Arrow's Intelligent Solutions help to embed it, connect it, and bring it all together. We offer a full suite of services from design engineering to integration, manufacturing, and fulfillment, enabling you to deliver the latest technologies to market – quickly and efficiently.

System and Design Engineering

Leverage our expertise to design solutions, select the right components, and optimize for performance and cost.

Supply Chain Management

Minimize supply disruptions with best-in-class processes, world-class systems, and infrastructure, extensive global footprint, and reach.

Global Integration Services

Streamline production with services that span from basic kitting to hardware configuration, to complete rack enclosure set-up and cabling.

Product Fulfillment

Improve order on-time delivery and enhance your customer service levels. Reduce overhead costs and streamline operations.

Support and Installation

Tailored programs to meet your needs including call support, forward-stocking locations, and onsite service.

Financial Services

Offerings include a mix of operational expense, capital expense, and outcome-based models to meet key financial metrics.

About ASUS IoT

ASUS IoT is a sub-brand of ASUS dedicated to the creation of incredible solutions in the fields of AI and IoT with the mission to become a trusted provider of embedded systems and partner to the wider AIoT solutions ecosystem. ASUS IoT strives to deliver best-in-class products and services across diverse vertical markets, and to partner with customers in the development of fully integrated and rapid time-to-market applications that drive efficiency – providing convenient, efficient, and secure living and working environments for people everywhere.

In partnership with:

ASUS IoT

tinker board 

Via Email

IntelligentSolutions@arrow.com

Online

arrow.com/AIS

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