

ASUS Tinker Board series

The small, powerful way to unleash IoT performance

ASUS Tinker Board series is an ultrasmall, single-board computer (SBC) that offers class-leading performance, outstanding mechanical compatibility and superb reliability – making it the perfect platform for diverse commercial, industrial and IoT applications.



01

Superior performance powered by ARM processor

Embedded with powerful and modern multi-core ARM-based processor, Tinker Board series offers significantly improved performance with saving energy versus other popular SBC boards. And powered by an ARM-based Mali GPU, Tinker Board series processors allow for a wide range of visual and audio uses, including digital signage, self-service kiosk, gaming machine, AI vision computing, object and face recognition and more.

arm SystemReady

02

Ready-to-deploy Software Suites with various OS

Compatible with multiple OS, experience exceptional performance, stability, and security with the Tinker Board series which come with comprehensive Software suites, Tinker CORE, and further OS customization for tailored solutions.



android 

Linux Kernel



Tinker CORE

03

Accessories for easy expandability

Designed with expandability in mind, Tinker Board series opens the door for embedded solutions. With accessories that include ASUS Tinker 2 Fanless Aluminum Case, ASUS IoT MIPI Converter Board and ASUS PoE Splitter Board, plus more besides, the Tinker Board platform offers ready-made solutions for enhanced convenience and functionality.



Tinker 2 Fanless Aluminum Case



MIPI Converter



PoE Splitter Board

04

Comprehensive documentation and vibrant support community

As a platform, Tinker Board series benefits from an abundance of tried, tested and trusted resources, from detailed documentation and open-source code to a thriving user community. All this and more is ready and waiting to accelerate the development of any project.



Tinker Wiki



Tinker Forum



Product Name	Tinker System 3N	Tinker System 2
SoC	Rockchip RK3568 with Quad-core Cortex-A55	Rockchip RK 3399 with Dual-core Cortex-A72 and Quad-core Cortex-A53
Rear I/O	1 x USB 3.2 Type-C, 2 x USB 3.2 Type-A, 3 x COM, 1 x CAN Bus 2.0	1 x USB 3.2 Type-C, 3 x USB 3.2 Type-A
Operation System	Debian, Android, Yocto	Debian, Android, Yocto
Dimension	105 x 175 x 43 mm	91 x 67 x 45 mm
Operation Temperature	0 °C ~ 35°C / -40°C ~ 60°C, optional	0°C ~ 50°C



Product Name	All-in-One ARM-Based Panel PC 3399 Series	All-in-One ARM-Based Panel PC 3568 Series	Rugged ARM-Based Panel PC 3568 Series
SoC	RK 3399 with Dual-core Cortex-A72 and Quad-core Cortex-A53	Rockchip RK3568 with Quad-core Cortex-A55	Rockchip RK3568 with Quad-core Cortex-A55
Screen Size	10.1" & 15.6"	10.1" & 15.6"	10.1" & 15.6"
Resolution	1280x 800 (10.1") & 1920 × 1080 (15.6")	1280x 800 (10.1") & 1920 × 1080 (15.6")	1280x 800 (10.1") & 1920 × 1080 (15.6")
Mounting	VESA Mount 100 x 100, Panel, Stand	VESA Mount 100 x 100, Panel, Stand	VESA Mount 100 x 100, Panel, Stand
Dimensions	249.66 x 168.3 x 52.9 mm (10.1") 383.56 x 232.99 x 52.9 mm (15.6")	249.66 x 168.3 x 52.9 mm (10.1") 383.56 x 232.99 x 52.9 mm (15.6")	249.66 x 168.3 x 52.9 mm (10.1") 383.56 x 232.99 x 52.9 mm (15.6")
Temperature	0~50°C	0~50°C	0~50°C



Product Name	Tinker Board 2.0 Tinker Board 2.S	Tinker Board 3 Tinker Board 3S	Tinker Board 3N PLUS Tinker Board 3N Tinker Board 3N LITE
SoC	RK 3399 with Dual-core Cortex-A72 and Quad-core Cortex-A53	RK 3566 with Quad-core Cortex-A55	RK 3568 with Quad-core Cortex-A55
Memory	LPDDR4 2/4 GB	LPDDR4X 2/4 GB	LPDDR4X 4/8 GB
Storage	16/32GB eMMC 1 x Micro SD card slot	16 GB eMMC 1 x Micro SD card slot	32/64 GB eMMC 1 x Micro SD card slot
Temperature	0~60°C	0~60°C	0~60°C
OS	Debian, Android, Yocto	Debian, Android, Yocto	Debian, Android, Yocto
Dimension	85 × 56 mm	85 × 56 mm	100 × 100 mm



Tinkerboard Website

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ASUS IoT