



Tinker Board 3 Series

User Manual



E22692
First Edition
August 2024

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About this manual

This manual provides information about the hardware and software features of your Single Board Computer, organized through the following chapters:

Chapter 1: Product Overview

This chapter details the features of your Single Board Computer.

Chapter 2: Product Introduction

This chapter provides you with description of the jumpers, headers, connectors, and I/O ports on your Single Board Computer.

Chapter 3: Software Installation

This chapter will guide you in setting up your Single Board Computer for the first time.

Appendix

This section includes notices and safety statements for your Single Board Computer.

Conventions used in this manual

To highlight key information in this manual, some text are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing certain tasks and prevent damage to your Single Board Computer's data and components.

1

Product Overview

1.1 Introduction

Tinker Board 3 Series is more than a dream for the DIY-obsessed: it's a gateway to new ideas and new relationships. Experienced makers will love Tinker Board's performance-to-price ratio and strong brand heritage, while novices and younger users will appreciate its accessibility and ease of use. But all will come together to create — Together We Make!

1.2 Features

Comprehensive Market-ready Support

- Enhanced seamless retail operations with Wi-Fi 5 & 6E
- Ready SDK for development and easy maintenance
- Built-in NPU for AI application
- Secure critical IoT Infrastructure
- Ready-to-deploy panel solutions

Durable and Compact Design Ensuring Resilience

- Low power consumption promoting sustainability and cost reduction
- All-round power protection for extended product lifespan
- Ameliorated reliability with Real Time Clock

Advanced Design Continuity

- Thermal solutions addressing various environments
- Improved design catering to Tinker Board R2.0
- Kiosk mode for retail applications

1.3 Package contents

Check your package for the following items:

- 1 x Tinker Board 3 or Tinker Board 3S
- 1 x Heatsink*
- 2 x Wi-Fi/Bluetooth antenna cables
- 1 x Shielding bag

* **Beware of high temperatures when only using the bundled heatsink.**

1.4 Product specifications

Tinker Board Series		Tinker Board 3	Tinker Board 3S
Processor	SoC	Rockchip RK3566	
	CPU	Quad-core Arm® Cortex®-A55	
	NPU	Rockchip NPU	
	GPU	Arm® Mali™-G52	
Memory	Technology	Dual-CH LPDDR4X	
	Size	2 GB / 4 GB*	
Storage	Memory Card	microSD (TF) card slot (push/pull)	
	eMMC	-	16 GB
Ethernet	Speed	10/100/1000 Mbps	
	Controller	1 x Realtek RTL8211F	
Wireless	Wi-Fi / BT	1 x Wi-Fi 5/6E* & BT 5.0 (2T2R), default occupies M.2 E-key	
Expansion Slots	M.2 E-key (2230)	1 x for Wi-Fi 5/6E* & BT (PCIe 2.0 x1, USB 2.0) Default for 1 x 802.11 a/b/g/n/ac wireless & BT 5.0 (2T2R)	
Display	HDMI	1 x HDMI supports up to 4096 x 2160 @ 60 Hz	
	MIPI DSI	1 x 4-lane MIPI DSI supports up to 1920 x 1080 @ 60 Hz	
	Multi-display	HDMI + MIPI DSI (only supports duplicate mode)	
Audio	3.5 mm Audio Jack	1 x 3.5 mm audio jack with mic-in	
	HDMI Audio	1 x S/PDIF TX pin (from GPIO)	
USB	USB 3.2 Gen 1 Type-A	1 x Type-A port	
	USB 2.0 Type-A	2 x Type-A ports	
	USB 2.0	1 x Micro-B port (device only)	
	USB 2.0 (internal)	1 x 4-pin header	

* Actual specification depends on model

(continued on the next page)

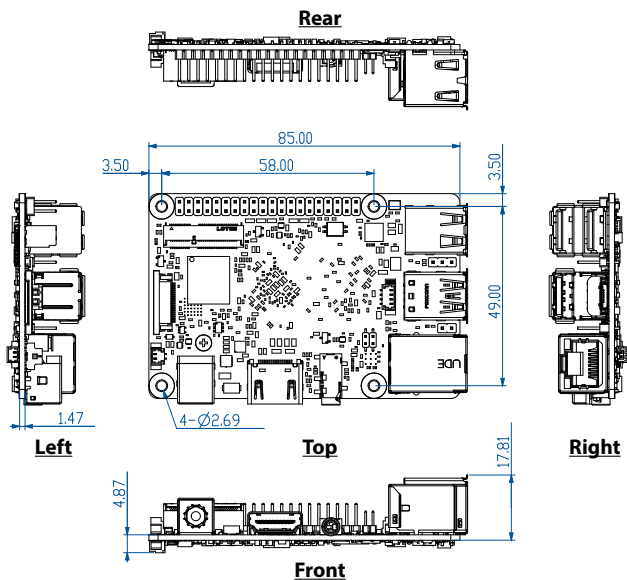
		Tinker Board 3	Tinker Board 3S
Other Internal I/O & Headers	40-pin GPIO	up to 28 x GPIO pins that includes the following: <ul style="list-style-type: none"> - up to 2 x SPI bus (2 select) pins - up to 2 x I2C bus pins - up to 4 x UART bus pins - up to 11 x PWM pins - up to 1 x PCM/I2S (master/slave) pin - up to 1 x S/PDIF TX pin - up to 2 x IR receiver pins 2 x 5 V power pins 2 x 3.3 V power pins 8 x ground pins	
	Recovery	1 x 2-pin jumper	
	Power-on & Reset	1 x 4-pin header	
	Debug UART	1 x 3-pin header	
	DC Fan	1 x 2-pin header	
	RTC Battery	1 x 2-pin header	
	MASK ROM (eMMC)	-	1 x DIP switch
	Status LEDs	3 x (Power, Disk, Reserve)	
	Power	Power Input (12 ~ 19 Vdc)	1 x DC-in Power jack (5.5/2.5 mm Barrel)
Environment	Operating Temp	0°C ~ 60°C	
	Non-operating Temp	-40°C ~ 85°C	
	Non-operating Humidity	10% ~ 85% (non-condensing)	
OS Support	Debian / Android / Yocto**		
Dimensions	3.37" x 2.125" (85 mm x 56 mm)		

* Actual specification depends on model

** Please find the latest OS support from <https://tinker-board.asus.com/>

NOTE: Specifications are subject to change without notice.

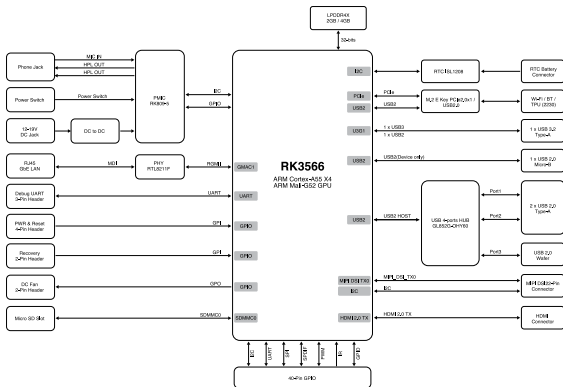
1.5 Dimensions



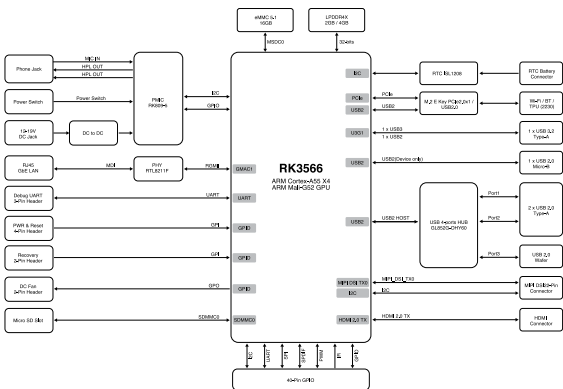
NOTE: All dimensions are in millimeters (mm).

1.6 Block diagram

1.6.1 Tinker Board 3



1.6.2 Tinker Board 3S



2

Product Introduction

2.1 Before you proceed

Take note of the following precautions before connecting your Single Board Computer or changing any settings.

NOTE: The diagrams in this chapter are for reference only. Your Single Board Computer layout may vary depending on model.

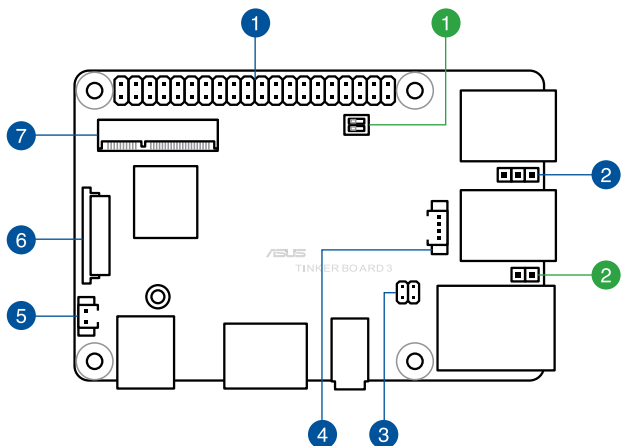
IMPORTANT! Components shown in this section may be purchased separately. Refer to the *Package contents* section for more information about the contents of your Single Board Computer package.

WARNING!

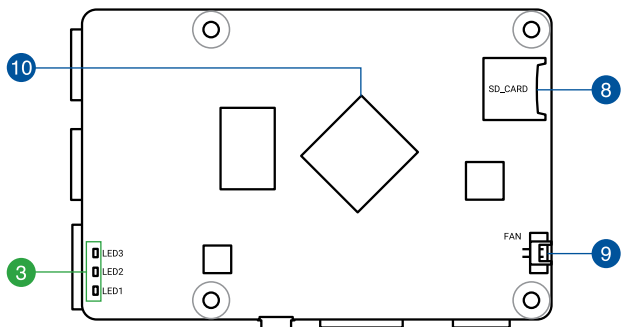
- Unplug the power cord from the wall socket before touching any component.
 - Before handling components, use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, to avoid damaging them due to static electricity.
 - Hold components by the edges to avoid touching the ICs on them.
 - Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that came with the component.
 - Before you install or remove any component, ensure that the power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the Single Board Computer, peripherals, or components.
-

2.2 Single Board Computer layout

Top view



Bottom view



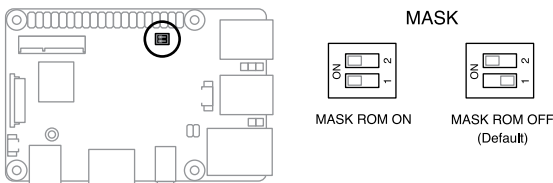
Jumpers/switches/LEDs		Page
1.	eMMC Mask ROM DIP switch	18
2.	Recovery jumper	18
3.	Status LEDs	19

Headers/connectors/slots		Page
1.	GPIO header	20
2.	Debug UART header	21
3.	Power / Reset header	22
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6.	MIPI DSI connector	24
7.	M.2 (E-key) slot	25
8.	microSD Card slot	25
9.	CPU Fan header	26
10.	SoC Rockchip RK3566	27

2.3 Jumpers, switches, and LEDs

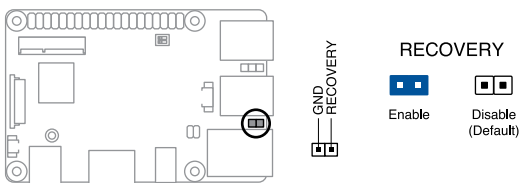
1. eMMC Mask ROM DIP switch (only on Tinker Board 3S)

The eMMC Mask ROM DIP switch when toggled ON allows you to mask the eMMC (ROM) to enter Mask ROM mode for recovery.



2. Recovery jumper (2-pin) (only applicable to Tinker Board 3S)

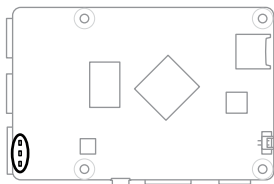
The Recovery jumper allows you to enter recovery mode upon reboot to rewrite the eMMC. Place a jumper cap over these pins to enable rebooting to recovery mode.



Connector Type	PIN HEADER 2P 2.54MM
Reference PN	JST/RE-02

3. Status LEDs

The Status LEDs indicate the current status of the Single Board Computer.



LED

▭ LED3

▭ LED2

▭ LED1

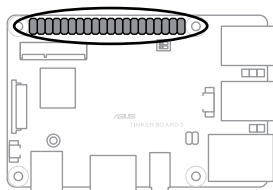
LED Indication		
LED 1 (Red)	LED 2 (Green)	LED 3 (Yellow)
Power	Disk Activity	Reserved (Programmable)

2.4 Headers and slots

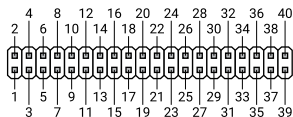
1. GPIO header (40-pin)

This 40-pin GPIO (General-Purpose Input/Output) header can be designated (in software) as an input or output pin and is used for a wide range of purposes. Of the 40 pins, 28 are GPIO pins (shared with SPI/UART/I2C pins).

NOTE: This GPIO header supports 5 V / 2 A power output.



40P_GPIO

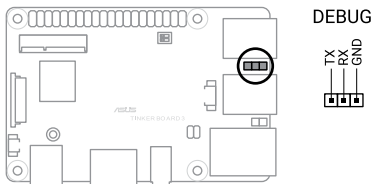


Pin definition	40P_GPIO	Pin definition
VCC_3V3	1 2	VCC_5V
GPIO0_B3/I2C1_SDA	3 4	GND
GPIO0_B4/I2C1_SCL	5 6	GPIO0_C1/UART0_TX/PWM2_M0
GPIO0_B0/CLK32K_OUT0	7 8	GPIO0_C0/UART0_RX/PWM1_M0
GND	9 10	GPIO3_A3/I2S3_SCLK_M0
GPIO4_C2/SPI3_CLK_M1/PWM14_M1	11 12	GND
GPIO4_C3/SPI3_MOSI_M1/PWM15_IR_M1	13 14	GPIO0_C7/UART0_CTSN/PWM0_M1
GPIO4_C5/SPI3_MISO_M1/PWM12_M1/UART9_TX_M1	15 16	GPIO0_C4/UART0_RTSN/PWM5
VCC_3V3	17 18	GND
GPIO2_C3/SPI2_MOSI_M0	19 20	GPIO3_C5/SPDIF_TX_M1/PWM15_IR_M0
GPIO2_C2/SPI2_MISO_M0	21 22	GPIO2_C4/SPI2_CS0_M0
GPIO2_C1/SPI2_CLK_M0	23 24	GPIO2_C5/SPI2_CS1_M0
GND	25 26	GPIO3_B3/I2C5_SCL_M0
GPIO3_B4/I2C5_SDA_M0	27 28	GND
GPIO4_C6/SPI3_CS0_M1/PWM13_M1/UART9_RX_M1	29 30	GPIO3_B2/PWM9_M0/UART4_TX_M1
GPIO0_C6/PWM7_IR	31 32	GND
GPIO3_B1/PWM8_M0/UART4_RX_M1	33 34	GPIO2_B3/UART1_RX_M0
GPIO3_A4/I2S3_LRCK_M0	35 36	GPIO3_A6/I2S3_SDI_M0
GPIO2_B4/UART1_TX_M0	37 38	GPIO3_A5/I2S3_SDO_M0
GND	39 40	

Connector Type	PIN HEADER 2X20P 2.54MM
Reference PN	MOLEX/70450 SERIES

2. Debug UART header (3-pin)

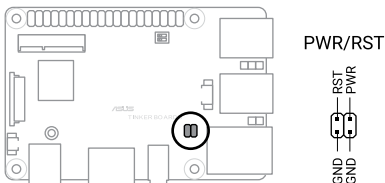
The Debug UART header allows you to access a debug terminal with a 3.3 V UART interface and a default Baud rate of 1500000.



Connector Type	PIN HEADER 3P 2.54MM
Reference PN	JST/RE-03

3. Power / Reset header (4-pin)

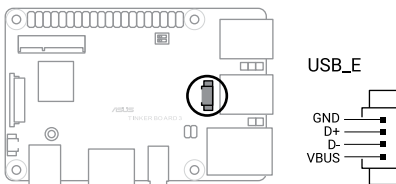
The Power / Reset header allows you to connect an external power/reset button.



Connector Type	PIN HEADER 2X2P 2.0MM
Reference PN	Molex/51110 Series

4. USB 2.0 header (4-pin)

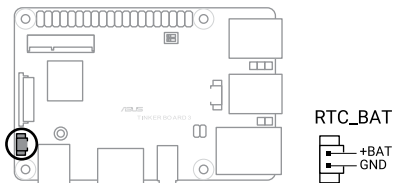
The USB 2.0 header allows you to connect a USB module for additional USB 2.0 ports. The USB 2.0 header provides data transfer speeds of up to 480 MB/s connection speed.



Connector Type	WAFER WtoB CON 4P 1.25MM
Reference PN	MOLEX/51021 Series

5. RTC Battery header (2-pin)

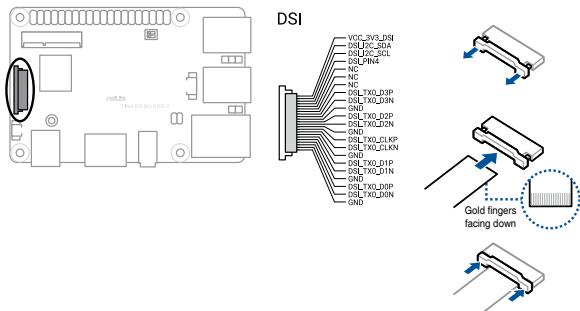
The RTC Battery header allows you to connect the lithium battery.



Connector Type	WtoB CON 2P 1.25MM
Reference PN	MOLEX/51021 Series

6. MIPI DSI connector (22-pin)

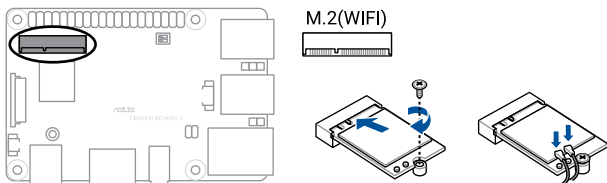
The MIPI DSI connector is used to connect a MIPI display module via a 4-lane MIPI-DSI cable. This connector supports up to 6 Gbps connection speed.



NOTE: For usage limitations, visit <https://github.com/TinkerBoard>.

7. M.2 (E-Key) Slot

The M.2 E-key slot allows you to install an M.2 Wi-Fi module (E-key, type 2230).

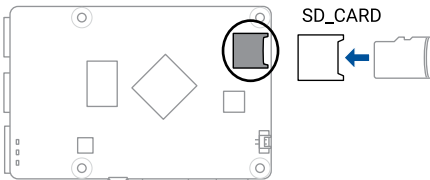


NOTE:

- The M.2 Wi-Fi module is purchased separately.
- We recommend using a PH1 screwdriver with a torque of 2.0 ± 0.2 kgf-cm when tightening the screw.
- Avoid mounting or placing the antennas on a metal surface, as it can be detrimental to antenna performance.

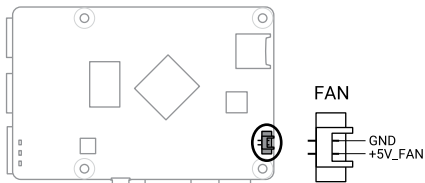
8. microSD Card slot

The microSD card slot allows you to install a microSD memory card.



9. CPU Fan header (2-pin)

The CPU Fan header allows you to connect a fan to cool the CPU. Connect the cables from the fan to this header, ensuring that the black cable is connected to the ground pin.



Connector Type	WtoB CON 2P 1.25MM
Reference PN	MOLEX/51021 Series

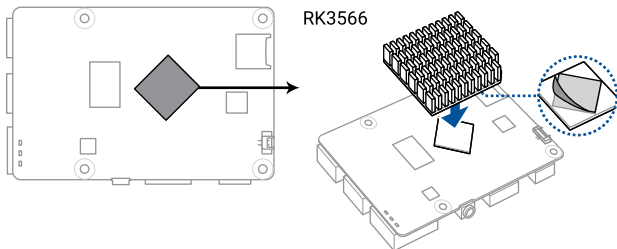
WARNING!

- These are not jumpers! Do not place jumper caps on the fan connectors.
- Ensure the cable is fully inserted into the connector.

NOTE: The fan is purchased separately.

10. SOC Rockchip RK3566

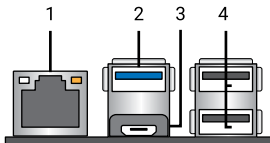
This AIoT processor is a 64-bit quad-core ARM Cortex-A55 SoC.



WARNING! Beware of high temperatures when only using the bundled heatsink.

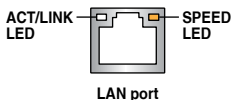
2.5 I/O connectors

2.5.1 Rear panel



1. LAN (RJ-45) port

This 8-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network. Please refer to the table below for the LED indications.



Activity Link LED	
Status	Description
Off	No link
Yellow	Linked
Yellow (Blinking)	Data activity

Speed LED	
Status	Description
Off	10 Mbps connection
Orange	100 Mbps connection
Green	1 Gbps connection

2. USB 3.2 Gen 1 Type-A port

This USB (Universal Serial Bus) port provides a transfer rate of up to 5 Gbit/s and supports OTG mode, which allows this device to read data from a USB device even when it's not connected to a PC.

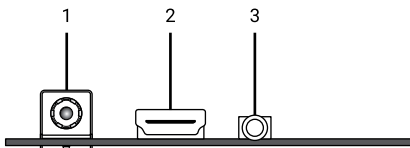
3. USB 2.0 Micro-B port

This USB (Universal Serial Bus) Micro-B port is designed for device mode firmware upgrades.

4. USB 2.0 Type-A port

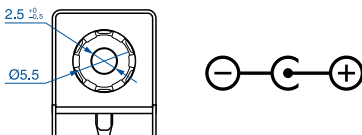
These USB (Universal Serial Bus) ports are compatible with USB 2.0 or USB 1.1 devices, such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras, and printers.

2.5.2 Right panel



1. DC-in Power jack

The supplied power adapter converts AC power to DC power for use with this jack (5.5mm/2.5mm). Power supplied through this jack supplies power to your Single Board Computer. To prevent damage to your Single Board Computer, always use the supplied power adapter. Please refer to the table below for the power consumption.



Power Consumption	
Mode	Power (W)
S5 (power off)	0.00037
S3 (suspend)	0.37
Idle	1.96
Burn-in*	5.37
Max. Load**	33.96

* CPU, GPU, NPU, RAM, eMMC, microSD, audio, LAN, USB hub, HDMI display, etc. stress test.

** Results based on test with 1 x USB 3.0 Type-A 5V/0.9A, 2 x USB 2.0 Type-A 5V/1.5A, 40-pin load 5V/2A & 3.3V/0.6A, Wi-Fi module 3.63 W, total up to 33.96 W.

2. HDMI™ port

This HDMI (High Definition Multimedia Interface) port supports a Full-HD device, such as an LCD TV or monitor, to allow viewing on a larger external display.

3. 3.5 mm Audio jack with mic-in

This 3.5mm audio jack allows you to connect headsets or earphones with a built-in microphone.



3

Software Installation

3.1 Booting from microSD card

3.1.1 Requirements

Before you start setting up your Single Board Computer, make sure you have the following available:

- 1 x microSD card with at least 8 GB capacity
- 1 x 12~19 V, DC 5.5/2.5 power supply*
- 1 x Monitor with HDMI™ cable
- 1 x Keyboard and Mouse set

* **The Power Supply is purchased separately.**

NOTE: Make sure to use the bundled power supply, or if you are using another power supply, ensure to use a 12~19 V power supply.

3.1.2 Installing or updating the OS

Follow the steps below for installing and updating the OS image as they are the same.

1. Insert a microSD card into a Windows® PC.
2. Download the TinkerOS image from the Tinker Board website (<https://tinker-board.asus.com/download.html>) and burn it into the microSD card using a third-party ISO software, such as *Etcher*.
3. Insert the bootable microSD card into your Single Board Computer, and then connect the power supply, keyboard, mouse, and monitor to boot up.

3.2 Booting from onboard eMMC

NOTE: Booting from the onboard eMMC is only available on Tinker Board 3S.

3.2.1 Requirements

- 1 x USB Micro-B cable with data transfer function
- 1 x 12~19V, DC 5.5/2.5 power supply*
- 1 x Monitor with HDMI™ cable
- 1 x Keyboard and Mouse set

* **The Power Supply is purchased separately.**

3.2.2 Setting up

Follow the steps below for installing and updating the OS image as they are the same.

1. Connect the USB Micro-B device port on your Single Board Computer (refer to the *Rear panel* section for location) to a host PC using a USB Micro-B cable.
2. Connect the power adapter to your Single Board Computer.
3. Download the TinkerOS image from the Tinker Board website (<https://tinker-board.asus.com/download.html>) and burn it into your Single Board Computer using a third-party ISO software, such as Etcher.
4. After the TinkerOS image is successfully burned, disconnect all cables from your Single Board Computer.
5. Connect the power supply, keyboard, mouse, and monitor to your Single Board Computer to boot up.



Appendix

Safety information

Your Single Board Computer is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

NO DISASSEMBLY

The warranty does not apply to the products that have been disassembled by users

Setting up your Single Board Computer

- Read and follow all instructions in the documentation before you set up your Single Board Computer.
- Do not use this product near water or a heated source.
- Set up the Single Board Computer on a stable surface.
- Use this product in environments with ambient temperatures between 0°C and 60°C.
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.
- This product should be connected by means of a power cord to a socket-outlet with earthing connection.

Safety Precautions

Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories for other products to prevent the risk of electric shock or fire.

安全上のご注意

付属品は当該専用品です。他の機器には使用しないでください。機器の破損もしくは、火災や感電の原因となることがあります。

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your Single Board Computer.
- When the Single Board Computer is turned off, a small amount of electrical current still flows. Always unplug the power cord from the power outlets before handling the product.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - The power cord or plug is damaged.
 - Liquid has been spilled onto the product.
 - The product does not function properly even if you follow the operating instructions.
 - The product was dropped.
 - The performance changes.
- Avoid contact with hot components inside the Single Board Computer. During operation, some components become hot enough to burn the skin. Before you open the computer cover, turn off the computer, disconnect the power, and wait approximately 30 minutes for the components to cool.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

HDMI Trademark Notice

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade Dress, and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Regulatory notices

FCC Compliance Information

Responsible Party: Asus Computer International

Address: 48720 Kato Rd., Fremont, CA 94538, USA

Phone / Fax No: (510)739-3777 / (510)608-4555

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Caution Statement

WARNING! Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC RF Exposure Information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid.

Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with Innovation, Science and Economic Development Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-003(B)/NMB-003(B)

Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-003(B)/NMB-003(B)

KC: Korea Warning Statement

B급 기기 (가정용 방송통신기자재)

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 하며, 모든 지역에서 사용할 수 있습니다.

VCCI: Japan Compliance Statement

Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

「產品之限用物質含有情況」之相關資訊，請參考下表：

Taiwan Declaration of Restricted Substances Marking

單元 (Unit)	限用物質及其化學符號 (Restricted substances and its chemical symbols)					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyls ethers (PBDE)
印刷電路板 及電子組件 PCB	—	○	○	○	○	○
其他及其 配件 (線材等) Accessories (e.g., cables)	—	○	○	○	○	○
備考 1. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 2. “—” 係指該項限用物質為排除項目。 Note 1 “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence. Note 2 The “—” indicates that the restricted substance corresponds to the exemption.						

Declaration of compliance for product environmental regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to <https://esg.asus.com/Compliance.htm> for information disclosure based on regulation requirements ASUS is complied with:

EU REACH and Article 33

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at <https://esg.asus.com/Compliance.htm>

EU RoHS

This product complies with the EU RoHS Directive. For more details, see <https://esg.asus.com/Compliance.htm>

Japan JIS-C-0950 Material Declarations

Information on Japan RoHS (JIS-C-0950) chemical disclosures is available on <https://esg.asus.com/Compliance.htm>

India RoHS

This product complies with the “India E-Waste (Management) Rules, 2016” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

Vietnam RoHS

ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.

Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm 2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

Türkiye RoHS

AEEE Yönetmeliğine Uygundur

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials. Please go to <https://esg.asus.com/en/Takeback.htm> for detailed recycling information in different regions.

Ecodesign Directive

The European Union announced a framework for the setting of ecodesign requirements for energy-related products (2009/125/EC). Specific implementing measures are aimed at improving environmental performance of specific products or across multiple product types. ASUS provides product information <https://esg.asus.com/Compliance.htm>.



DO NOT throw the device in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercury-containing button cell battery) should not be placed in municipal waste. Check local technical support services for product recycling.

France sorting and recycling information



FR

Cet appareil
et ses accessoires
se recyclent

À DÉPOSER
EN MAGASIN

À DÉPOSER
EN DÉCHÈTERIE



OU



Points de collecte sur www.quefairedemesdechets.fr
Privilégiez la réparation ou le don de votre appareil !

Simplified UKCA Declaration of Conformity

ASUSTeK Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related UKCA Directives. Full text of UKCA declaration of conformity is available at: www.asus.com/support

UKCA RF Output table (The Radio Equipment Regulations 2017)

RTL8822CE output power table:

Function	Frequency	Max Output Power (EIRP)
Wi-Fi	2412-2472 MHz	19 dBm
	5150-5350 MHz	22 dBm
	5470-5725 MHz	22 dBm
Bluetooth	2402-2480 MHz	16 dBm

* Receiver category 1

Simplified EU Declaration of Conformity

Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at <https://www.asus.com/support/>

Déclaration simplifiée de conformité de l'UE

ASUSTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes de la directive 2014/53/EU. La déclaration de conformité de l'UE peut être téléchargée à partir du site internet suivant : <https://www.asus.com/support/>

Vereinfachte EU-Konformitätserklärung

ASUSTek COMPUTER INC erklärt hiermit, dass dieses Gerät mit den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: <https://www.asus.com/support/>

Dichiarazione di conformità UE semplificata

ASUSTek Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con la direttiva 2014/53/EU. Il testo completo della dichiarazione di conformità UE è disponibile all'indirizzo: <https://www.asus.com/support/>

Упрощенное заявление о соответствии европейской директиве

ASUSTek Computer Inc. заявляет, что устройство соответствует основным требованиям и другим соответствующим условиям директивы 2014/53/EU. Полный текст декларации соответствия ЕС доступен на <https://www.asus.com/support/>

إعلان التوافق المبسط الصادر عن الاتحاد الأوروبي

تقر شركة ASUSTek Computer أن هذا الجهاز يتوافق مع المتطلبات الأساسية والأحكام الأخرى ذات الصلة الخاصة بتوجيه 2014/53/EU. يتوفر النص الكامل لإعلان التوافق الصادر عن الاتحاد الأوروبي على:

<https://www.asus.com/support/>

Опростена декларация за съответствие на ЕС

С настоящото ASUSTek Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложими постановления на свързаната Директива 2014/53/ЕС. Пълният текст на ЕС декларация за съвместимост е достъпен на адрес <https://www.asus.com/support/>

Declaração de Conformidade UE Simplificada

ASUSTek Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes relacionadas às diretivas 2014/53/UE. O texto completo da declaração de conformidade CE está disponível em <https://www.asus.com/support/>

Pojednostavljena EU Izjava o sukladnosti

ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama direktive 2014/53/EU. Cijeli tekst EU izjave o sukladnosti dostupan je na <https://www.asus.com/support/>

Zjednodušené prohlášení o shodě EU

Společnost ASUSTek Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/ EU. Plné znění prohlášení o shodě EU je k dispozici na adrese <https://www.asus.com/support/>

Forenklet EU-overensstemmelseserklæring

ASUSTeK Computer Inc. erklærer hermed at denne enhed er i overensstemmelse med hovedkravene og øvrige relevante bestemmelser i direktivet 2014/53/EU. Hele EU-overensstemmelseserklæringen kan findes på <https://www.asus.com/support/>

Vereenvoudigd EU-conformiteitsverklaring

ASUSTek Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring is beschikbaar op <https://www.asus.com/support/>

Lihtsustatud EÜ vastavusdeklaratsioon

Käesolevaga kinnitab ASUSTek Computer Inc, et seade vastab direktiivi 2014/53/EÜ olulistele nõuetele ja teistele asjakohastele sätetele. EL vastavusdeklaratsiooni täistekst on saadaval veebisaidil <https://www.asus.com/support/>

Eurooppa - EY:n vaatimustenmukaisuusvakuutus

ASUSTek Computer Inc. ilmoittaa täten, että tämä laite on direktiivin 2014/53/EU olennaisten vaatimusten ja muiden asiaankuuluvien lisäysten mukainen. Koko EY:n vaatimustenmukaisuusvakuutuksen teksti on luettavissa osoitteessa <https://www.asus.com/support/>

تبعیت از نسخه ساده شده بیانیہ اتحادیہ اروپا

ASUSTek Computer Inc در اینجا اعلام می کند که این دستگاه با نیازهای اساسی و سایر مقررات مربوط به بیانیہ 2014/53/EU. مطابقت دارد. متن کامل پیروی از این بیانیہ اتحادیہ اروپا در این آدرس موجود است:
<https://www.asus.com/support/>

Απλοποιημένη Δήλωση Συμμόρφωσης ΕΕ

Διά του παρόντος η ASUSTek Computer Inc. δηλώνει ότι αυτή η συσκευή είναι σύμμορφη με τις βασικές προϋποθέσεις και άλλες σχετικές διατάξεις της Οδηγίας 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ είναι διαθέσιμο στη διεύθυνση <https://www.asus.com/support/>

הצהרת תאימות רגולטורית מקוצרת עבור האיחוד אירופי

ASUSTek Computer Inc. מצהירה בזאת כי מכשיר זה תואם לדרישות החיוניות ולשאר הסעיפים הרלוונטיים של תקנה 2014/53/EU. ניתן לקרוא את הנוסח המלא של הצהרת התאימות הרגולטורית עבור האיחוד האירופי בכתובת:
<https://www.asus.com/support/>

Egyszerűsített EU megfelelési nyilatkozat

Az ASUSTek Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel az 2014/53/EU sz. irányelv alapvető követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelési nyilatkozat teljes szövegét a következő weboldalon tekintheti meg:

<https://www.asus.com/support/>

Pernyataan Kesesuaian UE yang Disederhanakan

ASUSTeK Computer Inc. dengan ini menyatakan bahwa perangkat ini memenuhi persyaratan utama dan ketentuan relevan lainnya yang terdapat pada Petunjuk 2014/53/EU. Teks lengkap pernyataan kesesuaian EU tersedia di: <https://www.asus.com/support/>

Vienkāršota ES atbilstības paziņojums

ASUSTeK Computer Inc. ar šo paziņo, ka šī ierīce atbilst Direktīvas 2014/53/ES būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: <https://www.asus.com/support/>

Supraprastinta ES atitikties deklaracija

Šiame dokumente bendrovė „ASUSTek Computer Inc.“ pareiškia, kad šis prietaisas atitinka pagrindinius reikalavimus ir kitas susijusias Direktyvos 2014/53/ES nuostatas. Visas ES atitikties deklaracijos tekstas pateikiamas čia: <https://www.asus.com/support/>

Forenklet EU-samsvarserklæring

ASUSTek Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i direktivet 2014/53/EU. Fullstendig tekst for EU-samsvarserklæringen finnes på: <https://www.asus.com/support/>

Uproszczona deklaracja zgodności UE

Firma ASUSTek Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami dyrektywy 2014/53/EU. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem <https://www.asus.com/support/>

Declaração de Conformidade Simplificada da UE

A ASUSTek Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes da Diretiva 2014/53/UE. O texto integral da declaração de conformidade da UE está disponível em <https://www.asus.com/support/>

Declarație de conformitate UE, versiune simplificată

Prin prezenta, ASUSTek Computer Inc. declară că acest dispozitiv este în conformitate cu reglementările esențiale și cu celelalte prevederi relevante ale Directivei 2014/53/UE. Textul complet al declarației de conformitate UE este disponibil la adresa <https://www.asus.com/support/>

Pojednostavljena Deklaracija o usaglašenosti EU

ASUSTek Computer Inc. ovim izjavljuje da je ovaj uređaj usaglašen sa osnovnim zahtevima i drugim relevantnim odredbama Direktive 2014/53/EU. Ceo tekst Deklaracije o usaglašenosti EU dostupan je na lokaciji <https://www.asus.com/support/>

Zjednodušené vyhlásenie o zhode platné pre EÚ

Spoločnosť ASUSTek Computer Inc. týmto vyhlasuje, že toto zariadenie je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice č. 2014/53/EÚ. Plné znenie vyhlásenia o zhode pre EÚ je k dispozícii na lokalite <https://www.asus.com/support/>

Poenostavljena izjava EU o skladnosti

ASUSTek Computer Inc. tukaj izjavlja, da je ta naprava skladna s temeljnimi zahtevami in drugimi relevantnimi določili Direktive 2014/53/EU. Polno besedilo izjave EU o skladnosti je na voljo na <https://www.asus.com/support/>

Declaración de conformidad simplificada para la UE

Por la presente, ASUSTek Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de la directiva 2014/53/EU. En <https://www.asus.com/support/> está disponible el texto completo de la declaración de conformidad para la UE.

Förenklad EU-försäkran om överensstämmelse

ASUSTek Computer Inc. deklarerar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta bestämmelser i direktiv 2014/53/EU. Fullständig text av EU-försäkran om överensstämmelse finns på <https://www.asus.com/support/>

ประกาศเกี่ยวกับความสอดคล้องของสหภาพยุโรปแบบย่อ

ASUSTek Computer Inc. ขอประกาศในที่นี้ว่าอุปกรณ์นี้มีความสอดคล้องกับ ความ

ต้องการที่จำเป็นและเงื่อนไขที่เกี่ยวข้องอื่น ๆ ของบทบัญญัติข้อกำหนด 2014/53/EU เนื้อหาที่สมบูรณ์ของประกาศความสอดคล้องกับ EU มีอยู่ที่ <https://www.asus.com/support/>

Basitleştirilmiş AB Uyumluluk Bildirimi

ASUSTek Computer Inc., bu aygıtın 2014/53/EU Yönergesinin temel gereksinimlerine ve diğer ilgili hükümlerine uygun olduğunu bildirir. AB uygunluk bildirimiminin tam metni şu adreste bulunabilir: <https://www.asus.com/support/>

Спрощена декларація про відповідність нормам ЄС

ASUSTek Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним вимогам Директиви 2014 / 53 / EU. Повний текст декларації відповідності нормам ЄС доступний на <https://www.asus.com/support/>



CE RED RF Output table (Directive 2014/53/EU)

RTL8822CE output power table:

Function	Frequency	Max Output Power (EIRP)
Wi-Fi	2412-2472 MHz	19 dBm
	5150-5350 MHz	22 dBm
	5470-5725 MHz	22 dBm
Bluetooth	2402-2480 MHz	16 dBm

* Receiver category 1

Service and Support

Visit our multi-language website at <https://www.asus.com/support/>.



