

TINKER EDGE T

Innovatively enjoy a whole new digital experience

享受創新的數位體驗
享受创新的数字体验
Profitez d'une toute nouvelle expérience numérique et innovante
Наслаждайтесь новыми инновационными технологиями
いまだかつてない新感覚のデジタル体験を提供します。
Sperimentate un'esperienza di interazione digitale completamente nuova!
Иновативно, насладавайте се на изцяло ново цифрово изживяване.
Zcela nový převratný digitální zážitek
Nyd en hel ny digital oplevelse
Geniet innovatief van een volledig nieuwe digitale ervaring
Nauditi innovatiivselt kogu uut digitaalsel kogemust
Nauti innovativisesta, aivan uudesta digitaalisesta kokemuksesta
Genießen Sie ein rundum neues Digitalerlebnis
Καινοτομική απόλαυση μιας εξολοκλήρου νέας εμπειρίας
Vadonatúj digitális élmény
Menikmati pengalaman digital yang benar-benar baru secara inovatif.
Топығымен жаңа сандық тәжірибеге инновациялық түрде қол жеткізіңіз
완전히 새로운 디지털 세계를 획기적으로 즐겨보세요.
Güştiet pilnīgi jaunu digitālo baudījumu inovatīvā veidā
Mégaukites visiškai naujais skaitmeniniai potyriais
Få glede av en helt ny, innovativ digital opplevelse
Korzystaj z zupełnie nowego cyfrowego rozwiązania
Desfrute de uma nova experiência digital de forma inovadora
Bucurați-vă în cel mai inovator mod de noua experiență digitală
Inovativno uživajte u celom, novom, digitalnom iskustvu
Inovativne si vychutnávajte úplne nový digitálny zážitek
Sea el primero en disfrutar de una nueva experiencia digital total
Innovativ njutning av en helt ny digital opplevelse
Tamamen yeni yaratıcı bir dijital deneyim yaşayın
Tận hưởng trải nghiệm số hoàn toàn mới theo cách cải tiến

استمتع بتجربة رقمية جديدة تمامًا وبشكل مبتكر

Thank you for purchasing ASUS Tinker Edge T!

Tinker Edge T is more than a dream for the DIY-obsessed; it's a gateway to new ideas and new relationships. Experienced makers will love Tinker Edge T'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!

Package contents

Check your Tinker Edge T package for the following items:

- 1 x Tinker Edge T
- 1 x Metallic backplate with screw set
- 1 x Shielding bag
- 1 x Quick start guide

Safety Information

- Power supply used with the Tinker Edge T shall comply with relevant regulations and applicable standards.
- DO NOT overclock the board, as this may cause damage to the board.
- Ensure that the board is placed in a well ventilated environment.
- The board should be placed on a flat, stable, non-conductive surface.
- Avoid handling the board while powered. Handle the board by the edges to minimize risk of Electronic Static Damage (ESD).

ASUS Tinker Edge T specifications summary

SoC	NXP i.MX 8M
CPU	Quad-core ARM A53 @ 1.5 GHz* * The CPU will operate at full capacity, take note of heat dissipation and AC adapter stability.
GPU	GC7000 Lite
NN Processor	Google Edge TPU ML accelerator coprocessor
Display	1 x HDMI with CEC hardware ready 1 x 22-pin MIPI DSI (4lane) supports up to FHD
Memory Size	LPDDR4 1GB
Storage	8GB eMMC Micro SD(TF) card slot (push/pull)
Connectivity	RTL8211F-CG Gb LAN 802.11 b/g/h/ac wireless and BT 4.1
USB	2 x USB 3.2 Gen 1 Type-A 1 x USB 3.2 Gen 1 Type-C® OTG
Camera Interface	2 x 24-pin MIPI CSI-2 (4lane)
Internal Headers	1 x 40-pin headers includes: - up to 28 x GPIO pins - up to 1 x SPI bus - up to 2 x I2C bus - up to 2 x UART - up to 3 x PWM - up to 1 x PCMC/2S - 2 x 5V power pins - 2 x 3.3V power pins - 8 x ground pins 1 x Boot mode switch 1 x 2-pin Reset header 1 x 2-pin DC Fan header
Power Connector	12-19V DC power input (45W)
OS Support	Linux Mendel
Dimension	3.37" x 2.125"
Warranty	1 Year

Getting Started

Requirement:

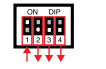
- 1 x USB Type-C® cable with data transfer function (to connect your PC to the board's data port)
- 1 x 12~19V power supply*
- 1 x Monitor with HDMI cable
- 1 x Keyboard and Mouse set
- * The power supply is purchased separately.

The factory settings only includes a U-Boot bootloader and does not include a system image.

Before you begin the flashing procedure, please ensure of the following:

- The board is completely powered off, and the power cord and cables connecting the board to your computer are all disconnected.
- The boot mode switches are set to eMMC mode, please refer to the table and illustration below for the eMMC mode setting.

Boot mode	Switch 1	Switch 2	Switch 3	Switch 4
eMMC	ON	OFF	OFF	OFF



Flashing the Tinker Edge T

Initiating Fastboot mode:

- Connect the USB Type-C® cable to the USB Type-C® ports on the Tinker Edge T and your host computer.
- Power on the board, you should automatically be booted into Fastboot mode.

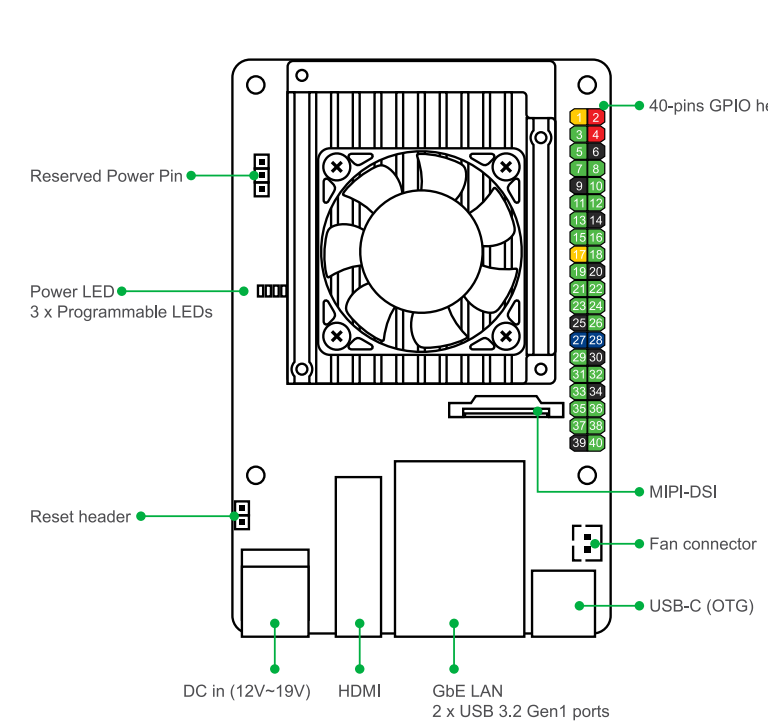
Please note that you will only be booted into Fastboot mode when booting up the Tinker Edge T for the first time.
Please refer to the readme file in the unzipped folder for details on other items such as re-flash or recovery.

Executing the flash script:

- Download the OS image from the Tinker Edge T website, then unzip the image file.
- Run the flash script or command file to start the flash process. The flash process should take a few minutes. Once the flash is completed, the Tinker Edge T will reboot and you should be booted to the terminal prompt.

Please refer to the readme file in the unzipped folder for troubleshooting steps.

Top view



1 VCC3.3V_IO	2 VCC5V
3 GPIO145_I2C2_SDA	4 VCC5V
5 GPIO144_I2C2_SCL	6 GND
7 GPIO155_UART3_TXD	8 GPIO151_UART1_TXD
9 GND	10 GPIO150_UART1_RXD
11 GPIO154_UART3_RXD	12 GPIO107_SAI1_TXC
13 GPIO6	14 GND
15 GPIO130_PWM4	16 GPIO73
17 VCC3.3V_IO	18 GPIO138
19 GPIO135_ECSP11_MOSI	20 GND
21 GPIO136_ECSP11_MISO	22 GPIO140
23 GPIO134_ECSP11_SCLK	24 GPIO137_ECSP11_SS0
25 GND	26 GPIO66_ECSP11_SS1
27 GPIO147_I2C3_SDA	28 GPIO146_I2C3_SCL
29 GPIO7	30 GND
31 GPIO8	32 GPIO1_PWM1
33 GPIO13_PWM2	34 GND
35 GPIO106_SAI1_TXFS	36 GPIO141
37 GPIO77	38 GPIO98_SAI1_RXD0
39 GND	40 GPIO108_SAI1_TXD0

Bottom view

