TUF GAMING X570-PLUS

asus.com/Motherboards-Components/Motherboards/TUF-Gaming/TUF-GAMING-X570-PLUS/techspec

CPU

AMD AM4 Socket for AMD Ryzen™ 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series/ 3000 G-Series/ 2000 Series/ 2000 G-Series Desktop Processors
* Refer to www.asus.com for CPU support list
* Due to CPU limitation, CPU cores supported varies by processors.

Chipset

AMD X570

Memory

4 x DIMM, Max. 128GB, DDR4
5100(O.C)/5000(O.C)/4800(O.C.)/4600(O.C)/4400(O.C)/4266(O.C.)/4133(O.C.)/4000(O.C.)/3866(O.C.)/3733(O.C.)/3600(O.C.)/3466(O.C
MHz Un-buffered Memory
Dual Channel Memory Architecture
ECC Memory (ECC mode) support varies by CPU.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).
* The maximum memory frequency supported varies by processor.

Graphic

Integrated Graphics in AMD Ryzen™ 5000 G-Series/ 4000 G-Series/ 3000 G-Series/ 2000 G-Series Desktop Processors
Multi-VGA output support : HDMI/DisplayPort ports
- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz
- Supports DisplayPort with max. resolution 4096 x 2160 @ 60 Hz

Multi-GPU Support

Supports AMD CrossFireX™ Technology

Expansion Slots

AMD Ryzen™ 5000 Series/ 3000 Series Desktop Processors
1 x PCIe 4.0 x16 (x16 mode)
AMD Ryzen™ 5000 G-Series/ 4000 G-Series/ 2000 Series Desktop Processors
1 x PCIe 3.0 x16 (x16 mode)
AMD Ryzen™ 3000 G-Series / 2000 G-Series Processors
1 x PCIe 3.0/2.0 x16 (x8 mode)
AMD X570 chipset
1 x PCIe 4.0 x16 (max at x4 mode)
3 x PCIe 4.0 x1

Storage

AMD Ryzen™ 5000 Series/ 3000 Series Desktop Processors :
1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 4.0 x4 and SATA modes) storage devices support
AMD Ryzen™ 5000 G-Series/ 4000 G-Series/ 3000 G-Series/ 2000 Series/ 2000 G-Series Desktop Processors :
1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 3.0 x4 and SATA modes) storage devices support
AMD X570 chipset :
1 x M.2 Socket 3, with M Key, Type 2242/2260/2280/22110(PCIE 4.0 x4 and SATA modes) storage devices support
8 x SATA 6Gb/s port(s)
Support Raid 0, 1, 10

LAN

Realtek® L8200A
ASUS Turbo LAN Utility
TUF LANGuard

Audio

Realtek® ALC S1200A 8-Channel High Definition Audio CODEC
Audio Feature :
- Exclusive DTS Custom for GAMING Headsets.

- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference
- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals
- Premium Japanese audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
- Audio Cover: Effective shielding preserves the integrity of audio signals to ensure best quality.

USB Ports

AMD Ryzen™ 5000 Series/ 5000 G-Series/ 4000 G-Series/ 3000 Series/ 3000 G-Series/ 2000 Series/ 2000 G-Series Desktop Processors :
4 x USB 3.2 Gen 1 port(s) (4 at back panel,)
AMD X570 chipset :
3 x USB 3.2 Gen 2 port(s) (3 at back panel, , 2 x Type-A+1 x USB Type-C®)
AMD X570 chipset :
2 x USB 3.2 Gen 1 port(s) (2 at mid-board)
AMD X570 chipset :
4 x USB 2.0 port(s) (4 at mid-board)

Special Features

ASUS TUF PROTECTION
- ASUS SafeSlot: Protect your graphics card Investment
- ASUS ESD Guard: Enhanced ESD protection
- ASUS Overvoltage Protection: World-class circuit-protecting power design
- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
- ASUS DIGI+ VRM: Precision control for stable power
- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges!

AURA :
- Aura Lighting Control
- Aura RGB Strip Headers
- Addressable Gen 2 Header

ASUS Exclusive Features :
- AI Suite 3
- Ai Charger

ASUS Quiet Thermal Solution :
- Stylish Design: MOS Heat-sink with dual thermal pads design, PCH Fan, PCH and M.2 Heatsink
- ASUS Fan Xpert 4

ASUS EZ DIY :
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode

ASUS Q-Design :
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM

DIY Friendly Design
- Procool
- SafeSlot
- Digi+ VRM
- Highly Durable components
- ESD Guards

Back I/O Ports

1 x PS/2 keyboard/mouse combo port(s)
1 x DisplayPort
1 x HDMI
1 x LAN (RJ45) port(s)
1 x Optical S/PDIF out
5 x Audio jack(s)
4 x USB 3.2 Gen 1 (up to 5Gbps) ports
3 x USB 3.2 Gen 2 (up to 10Gbps) ports (Type-A + USB Type-C™)

Internal I/O Ports

2 x Aura RGB Strip Header(s)
1 x Addressable Gen 2 header(s)
2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)
1 x M.2 Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (SATA mode & X4 PCIE mode)
1 x M.2 Socket 3 with M Key, type 2242/2260/2280/22110 storage devices support (SATA mode & X4 PCIE mode)

1 x SPI TPM header
8 x SATA 6Gb/s connector(s)
1 x CPU Fan connector(s)
1 x CPU OPT Fan connector(s)
3 x Chassis Fan connector(s)
1 x AIO_PUMP connector
1 x 24-pin EATX Power connector(s)
1 x 8-pin ATX 12V Power connector(s)
1 x 4-pin ATX 12V Power connector(s)
1 x Front panel audio connector(s) (AAFP)
1 x System panel(s)
1 x Clear CMOS jumper(s)
1 x COM port header
1 x USB 3.2 Gen 1 (up to 5Gbps) connector support additional 2 USB ports

Accessories

User´s manual
I/O Shield
2 x SATA 6Gb/s cable(s)
1 x M.2 Screw Package
1 x Supporting DVD
1 x TUF GAMING Sticker
1 x TUF Certification card(s)

BIOS

256Mb Flash ROM, UEFI AMI BIOS, PnP, SM BIOS 3.2, ACPI 6.2, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F6 Qfan Control, F3 My Favorites, F4 AURA ON/OFF, Last Modified log, F9 Search, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information

Manageability

WOL by PME, PXE

Operating System

Windows® 10 64-bit

Form Factor

ATX Form Factor
12.0 inch x 9.6 inch (30.5 cm x 24.4 cm)

Note

None

- Products certified by the Federal Communications Commission and Industry Canada will be distributed in the United States and Canada. Please visit the ASUS USA and ASUS Canada websites for information about locally available products.
- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- Specifications and features vary by model, and all images are illustrative. Please refer to specification pages for full details.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

- Specifications and features vary by model, and all images are illustrative. Please refer specification pages for full details.
- *Precise specifications and features vary by model . Please refer to the specification page
- The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.
- The use of trademark symbol (TM, ®) appears on this website means that the word text, trademarks, logos or slogans, is being used as trademark under common laws protection and/or registered as Trademark in U.S. and/or other country/region.