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CPU

AMD AM4 Socket AMD Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7th Generation A-series/Athlon X4 Processors
Supports CPU up to 8 cores
* Refer to www.asus.com for CPU support list

AMD AM4 Socket AMD Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7th Generation A-series/Athlon X4 Processors
Supports CPU up to 8 cores
* Refer to www.asus.com for CPU support list

AMD AM4 Socket AMD Ryzen™ 2nd Generation/Ryzen™ with Radeon™ Vega Graphics/Ryzen™ 1st Generation/7th Generation A-series/Athlon X4 Processors
Supports AM4 Socket 14 nm CPU
Supports CPU up to 8 cores
* Refer to www.asus.com for CPU support list

Chipset

AMD B350

AMD B350

AMD B350

Memory

AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors
4 x DIMM, Max. 64GB, DDR4 3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory
AMD 7th Generation A-Series/Athlon X4 Processors
4 x DIMM, Max. 64GB, DDR4 2400/2133 MHz Un-buffered Memory
Dual Channel Memory Architecture
ECC Memory (ECC model) support varies by CPU.
* Hyper DIMM support is subject to the physical characteristics of individual CPUs.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors
4 x DIMM, Max. 64GB, DDR4 3200(O.C.)/3000(O.C.)/2933(O.C.)/2800(O.C.)/2666/2400/2133 MHz Un-buffered Memory
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AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors
4 x DIMM, Max. 64GB, DDR4 3200(O.C.)/2933(O.C.)/2666/2400/2133 MHz ECC and non-ECC, Un-buffered Memory *
AMD 7th Generation A-series/Athlon™ Processors
4 x DIMM, Max. 64GB, DDR4 2400/2133 MHz Non-ECC, Un-buffered Memory *
Dual Channel Memory Architecture
* Hyper DIMM support is subject to the physical characteristics of individual CPUs.
* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

Graphic

Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ 7th Generation A-Series APU
Multi-VGA output support : HDMI/DVI/RGB ports
- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz
- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz
Maximum shared memory of 2048 MB (for iG

Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ 7th Generation A-Series APU
Multi-VGA output support : HDMI/DVI/RGB ports
- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz
- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz
Maximum shared memory of 2048 MB (for iG

Integrated Graphics in the AMD Ryzen™ with Radeon™ Vega Graphics/ 7th Generation A-Series APU
Multi-VGA output support : HDMI/DisplayPort ports
- Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz
- Supports DisplayPort 1.2 with max. resolution 4096 x 2160 @ 60 Hz
Maximum shared memory of 2048 MB (for iGPU exclusively)

Product Comparison



PRIME B350M-A



PRIME B350-PLUS



ROG STRIX B350-F GAMING

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7th Generation A-Series/Athlon X4 Processors

Ports

1 x PCIe 3.0/2.0 x16 (x8 mode)

AMD B350 chipset

2 x PCIe 2.0 x1

7th Generation A-Series/Athlon X4 Processors

Ports

1 x PCIe 3.0/2.0 x16 (x8 mode)

AMD B350 chipset

1 x PCIe 2.0 x16 (max at x4 mode) *1

2 x PCIe 2.0 x1

2 x PCI

7th Generation A-Series/Athlon X4 Processors

Ports

1 x PCIe 3.0/2.0 x16 (x8 mode)

AMD B350 chipset

1 x PCIe 2.0 x16 (max at x4 mode) *1

3 x PCIe 2.0 x1

Storage**AMD B350 chipset :**4 x SATA 6Gb/s port(s), gray,
Support Raid 0, 1, 10**AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation/7th Generation A-Series/Athlon X4 Processors :**

2 x SATA 6Gb/s port(s), gray,

AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 4 mode)*1

AMD 7th Generation A-Series/Athlon X4 Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 2 mode)*2

AMD B350 chipset :4 x SATA 6Gb/s port(s), gray,
Support Raid 0, 1, 10**AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation/7th Generation A-Series/Athlon X4 Processors :**

2 x SATA 6Gb/s port(s), gray,

AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 4 mode)*2

AMD 7th Generation A-Series/Athlon X4 Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 2 mode)*3

AMD Ryzen™ 2nd Generation/ Ryzen™ with Radeon™ Vega Graphics/ Ryzen™ 1st Generation Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 4 mode)*5

2 x SATA 6Gb/s port(s),

AMD 7th Generation A-series/Athlon™ Processors :

1 x M.2 Socket 3, with M key, type 2242/2260/2280/22110 storage devices support (SATA & PCIe 3.0 x 2 mode)*6

AMD B350 chipset :4 x SATA 6Gb/s port(s),
Support Raid 0, 1, 10**LAN**

Realtek® RTL8111H, 1 x Gigabit LAN Controller(s)

Realtek® RTL8111H, 1 x Gigabit LAN Controller(s)

Intel® I211-AT, 1 x Gigabit LAN Controller(s)
Anti-surge LANGuard
ROG GameFirst Technology**Audio**

Realtek® ALC887 8-Channel High Definition Audio CODEC

Realtek® ALC887 8-Channel High Definition Audio CODEC

ROG SupremeFX 8-Channel High Definition Audio CODEC S1220A

- Dual Headphone Amplifiers

- Impedance sense for front and rear headphone outputs

- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking

- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input

- SupremeFX Shielding Technology

- Supports up to 32-Bit/192kHz playback

Audio Feature :

- Optical S/PDIF out port(s) at back panel

- Sonic Radar III

- Sonic Studio III

Product Comparison



PRIME B350M-A



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2 x USB 3.0 port(s) (2 at mid-board)

AMD B350 chipset :

4 x USB 2.0 port(s) (4 at mid-board)

2 x USB 3.0 port(s) (2 at mid-board)

AMD B350 chipset :

6 x USB 2.0 port(s) (2 at back panel, black, 4 at mid-board)

AMD B350 chipset :

2 x USB 3.1 Gen 1 port(s) (2 at mid-board)

AMD B350 chipset :

6 x USB 2.0 port(s) (2 at back panel, black, 4 at mid-board)

Special Features

ASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
- ASUS LANGuard: Protects against LAN surges, lightning strikes and static-electricity discharges!
- ASUS Overvoltage Protection: World-class circuit-protecting power design
- ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
- ASUS DIGI+ VRM: 6 Phase digital power design

ASUS Exclusive Features :

- AI Suite 3
- Ai Charger
- PC Cleaner

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- Multi-language BIOS

ASUS Q-Design :

- ASUS Q-Slot
- ASUS Q-DIMM

ASUS 5X Protection III :

- ASUS SafeSlot Core: Fortified PCIe Slot prevents damage
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ASUS Exclusive Features :

- AI Suite 3
- Ai Charger
- PC Cleaner

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution & MOS Heatsink
- ASUS Fan Xpert 2+

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- Multi-language BIOS

ASUS Q-Design :

- ASUS Q-Slot
- ASUS Q-DIMM

5-Way Optimization by Dual Intelligent Processors 5

- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ VRM, Fan Xpert 4, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.

TPU

- Auto Tuning, TurboV, GPU Boost

Gamer's Guardian:

- ESD Guards on LAN, Audio, KBMS and USB3.0/2.0 ports
- DRAM Overcurrent Protection
- Stainless Steel Back I/O
- Highly Durable Components
- DIGI+ VRM
- SafeSlot

ASUS EPU :

- EPU

AURA :

- Aura Lighting Control

ASUS Exclusive Features :

- AI Suite 3
- Ai Charger

ASUS EZ DIY :

- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3

ASUS Q-Design :

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

Gaming Aesthetics :

- AURA-RGB Lighting

Digi+VRM

Operating System Support

Windows® 10

Windows® 10

Back I/O Ports

- 1 x PS/2 keyboard (purple)
- 1 x PS/2 mouse (green)
- 1 x DVI-D

- 1 x PS/2 keyboard/mouse combo port(s)
- 1 x DVI-D
- 1 x D-Sub

- 1 x DisplayPort
- 1 x HDMI
- 1 x LAN (RJ45) port(s)

Product Comparison



PRIME B350M-A



PRIME B350-PLUS



ROG STRIX B350-F GAMING

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Connectivity Ports

- 1 x Fan RGB header
- 1 x USB 3.1 Gen 1 (up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s) (1 9-pin)
- 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 & PCIe mode)
- 1 x COM port(s) connector(s)
- 6 x SATA 6Gb/s connector(s)
- 1 x CPU Fan connector(s) (1 x 4 -pin)
- 1 x Chassis Fan connector(s) (1 x 4 -pin)
- 1 x S/PDIF out header(s)
- 1 x 24-pin EATX Power connector(s)
- 1 x 8-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 Speaker connector

- 1 x Fan RGB header
- 1 x USB 3.1 Gen 1 (up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 Gen 1 port(s) (1 9-pin)
- 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 & PCIe mode)
- 1 x COM port(s) connector(s)
- 6 x SATA 6Gb/s connector(s)
- 1 x CPU Fan connector(s) (1 x 4 -pin)
- 2 x Chassis Fan connector(s) (2 x 4 -pin)
- 1 x S/PDIF out header(s)
- 1 x 24-pin EATX Power connector(s)
- 1 x 8-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)

- 2 x RGB Header(s)
- 1 x USB 3.1 Gen 1 (up to 5Gbps) connector(s) support(s) additional 2 USB 3.1 Gen 1 port(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 & PCIe 3.0 x 4 mode)
- 1 x TPM connector(s)
- 1 x COM port(s) connector(s)
- 6 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 Front panel audio connector(s) (AAFP)
- 1 x Thermal sensor connector(s)
- 1 x Clear CMOS jumper(s)
- 1 x System panel connector

Accessories

- User's manual
- I/O Shield
- 2 x SATA 6Gb/s cable(s)
- 1 x M.2 Screw Package
- 1 x Supporting DVD

- User's manual
- I/O Shield
- 2 x SATA 6Gb/s cable(s)
- 1 x M.2 Screw Package
- 1 x Supporting DVD

- User's manual
- I/O Shield
- 4 x SATA 6Gb/s cable(s)
- 1 x M.2 Screw Package
- 1 x Supporting DVD
- 1 x ROG Strix stickers
- 1 x 10-in-1 ROG cable label
- 1 x Cable ties pack(s)
- 1 x Extension Cable for RGB strips (80 cm)
- 1 x ROG coaster(s)

BIOS

PRIME B350M-A
128 Mb Flash ROM, UEFI AMI BIOS, PnP,WfM2.0, SM BIOS 3.0, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Last Modified log, F12 PrintScreen, ASUS DRAM SPD (Serial Presence Detect) memory information, F6 Qfan Control

PRIME B350-PLUS
128 Mb Flash ROM, UEFI AMI BIOS, PnP,WfM2.0,SM BIOS 3.0, ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Last Modified log, F12 PrintScreen, ASUS DRAM SPD (Serial Presence Detect) memory information, F6 Qfan Control

ROG STRIX B350-F GAMING
128 Mb Flash ROM, UEFI AMI BIOS, PnP, WfM 2.0, SM BIOS 3.0 ACPI 6.1, Multi-language BIOS, ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information

Operating System

Windows® 10 64-bit

Windows® 10 64-bit

Windows® 10 64-bit

Form Factor

mATX Form Factor

ATX Form Factor

ATX Form Factor

Product Comparison



PRIME B350M-A



PRIME B350-PLUS



ROG STRIX B350-F GAMING

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2 device is installed. 2 The M.2 Socket shares bandwidth with the SATA6G_5/6 ports, therefore the SATA6G_5/6 ports cannot be used when a SATA mode M.2 device is installed.

3*The M.2 Socket shares bandwidth with the SATA6G_5/6 ports, therefore the SATA6G_5/6 ports cannot be used when a SATA mode M.2 device is installed.

4 for 6-Channel audio. 5 Due to AMD Ryzen Processor limitation, More than DDR4-2666 is supported by one DIMM per channel only *4 ROG GameFirst IV is only available for Windows 10 64-bit. *5 When a SATA / PCIE mode M.2 device is installed, the M.2 Socket shares bandwidth with the SATA6G_5/6 ports. *6 When a SATA mode M.2 device is installed, the M.2 Socket shares bandwidth with the SATA6G_5/6 ports

Multi-GPU Support

Supports AMD CrossFireX™ Technology

Supports AMD 3-Way CrossFireX™ Technology

ROG Exclusive Features

- ROG RAMCache II
- ROG CPU-Z
- ROG CloneDrive
- Overwolf
- GameFirst IV

Manageability

WfM 2.0, DMI 3.0, WOL by PME, PXE

Support Disc

Drivers ASUS Utilities ASUS EZ Update Anti-virus software (OEM version)

Want More?

Who We Are

Need Help?

Community

Global / English

