

ASUS Z590 Motherboards

| | | ROG | | | | | | | | Z590 | | | | Prime | | | | TUF Gaming | | |
|-----------------------------------|-------------------------------|---|---|--|--|--|--|--|--|--|--|--|--|---|--|--|--|------------|--|--|
| Series | | | | | | | | | | | | | | | | | | | | |
| Model | | ROG MAXIMUS XIII EXTREME GLACIAL | ROG MAXIMUS XIII EXTREME | ROG MAXIMUS XIII APEX | ROG MAXIMUS XIII HERO | ROG STRIX Z590-E GAMING WIFI | ROG STRIX Z590-F GAMING WIFI | ROG STRIX Z590-A GAMING WIFI | ROG STRIX Z590-I GAMING WIFI | PRIME Z590-A | PRIME Z590-P WIFI | PRIME Z590-P | PRIME Z590M-PLUS | Z590 WIFI GUNDAM EDITION | TUF GAMING Z590-PLUS WIFI | TUF GAMING Z590-PLUS | | | | |
| Photo | | | | | | | | | | | | | | | | | | | | |
| CPU Socket | | LGA1200 | | | | | | | | | | | | | | | | | | |
| Chipset | | Z590 | | | | | | | | | | | | | | | | | | |
| Form factor | | EATX | EATX | ATX | ATX | ATX | ATX | ATX | Mini-ITX | ATX | ATX | ATX | mATX | ATX | ATX | ATX | | | | |
| Integrated power stages / DrMOS | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| Teamed Power Architecture | | 18+2 | 18+2 | 18+0 | 14+2 | 14+2 | 14+2 | 14+2 | 8+2 | 14+2 | 10+1 | 10+1 | 8+1 | 14+2 | 14+2 | 14+2 | | | | |
| Pre-mounted I/O shield | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| Memory | # Slots, Maximum capacity | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 2 x DIMM, Max. 64GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 2 x DIMM, Max. 64GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | | | | |
| | Speed (MHz)* | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5333(O/C) | 5133(O/C) | 5133(O/C) | 5133(O/C) | 5133(O/C) | 5133(O/C) | 5133(O/C) | | | | |
| | OptiMem | OptiMem III | OptiMem III | OptiMem III | OptiMem III | OptiMem III | OptiMem III | OptiMem III | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | | | | |
| Graphics output | Multi-GPU support | NVIDIA 2-Way SLI® | NVIDIA 2-Way SLI® (Support two 3-slot graphics cards) | NVIDIA 2-Way SLI® | NVIDIA 2-Way SLI® | NVIDIA 2-Way SLI® | NVIDIA 2-Way SLI® | NVIDIA 2-Way SLI® | — | — | — | — | — | — | — | — | | | | |
| | PCIe 4.0 x16 | 2 x PCIe 4.0 x16 (Qx16 or x8/x4) | 2 x PCIe 4.0 x16 (Qx16 or x8/x4) | 2 x PCIe 4.0 x16 SafeSlots (Qx16, Qx8/x8, Qx8/x4) | 2 x PCIe 4.0 x16 SafeSlots (Qx16, Qx8/x8, Qx8/x4) | 2 x PCIe 4.0/3.0 x16 SafeSlots (Qx16, Qx8/x8) | 2 x PCIe 4.0/3.0 x16 SafeSlots (Qx16, Qx8/x8) | 3 x PCIe 4.0/3.0 x16 SafeSlots (Qx16, Qx8/x4/x4) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 3 x PCIe 4.0/3.0 x16 SafeSlots (Qx16, Qx8/x4/x4) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | | | |
| | PCIe 3.0 x16 | — | — | — | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | — | — | — | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | | | |
| | PCIe 3.0 x4 | 1 x PCIe 3.0 x4 | 1 x PCIe 3.0 x4 | 1 x PCIe 3.0 x4 | — | — | — | 1 x PCIe 3.0 x4 | — | 1 x PCIe 3.0 x4 | — | — | — | — | — | — | — | | | |
| | PCIe x1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | | | |
| Thunderbolt 4 support | | 2*onboard | 2*onboard | 1*header | 2*onboard | 1*header | 1*header | 1*header | 1*onboard | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | | | | |
| SATA 6Gb/s | | 6 | 6 | 8 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | | | | |
| Storage & Connectivity | M.2 | 3 x 2280 (PCIe 4.0 x4) 1 x DIMM 2_1 (PCIe 3.0 x4 & SATA) 1 x DIMM 2_2 (PCIe 3.0 x4) | 3 x 2280 (PCIe 4.0 x4) 1 x DIMM 2_1 (PCIe 3.0 x4 & SATA) 1 x DIMM 2_2 (PCIe 3.0 x4) | 2 x 2280 (PCIe 4.0 x4) 1 x DIMM 2_1 (PCIe 3.0 x4 & SATA) 1 x DIMM 2_2 (PCIe 3.0 x4) | 1 x 2210 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4) | 2 x 2210 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 2 x 2210 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA) | | | |
| | Front panel Type-C™ connector | 2 (1 x USB 3.2 Gen 2x2 1 x USB 3.2 Gen 2) | 2 (1 x USB 3.2 Gen 2x2 1 x USB 3.2 Gen 2) | 1 x USB 3.2 Gen 2x2 | 1 x USB 3.2 Gen 2x2 | 1 x USB 3.2 Gen 2 | 1 x USB 3.2 Gen 2 | 1 x USB 3.2 Gen 2 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 2 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | — | 1 x USB3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | | | |
| | USB4 | 2 (2C0B) | 2 (2C0B) | — | 2 (2C0B) | — | — | — | 1 (1C0B) | — | — | — | — | — | — | — | — | | | |
| | USB 3.2 Gen 2x2 | 2 (1C0F, 1C0B) | 2 (1C0F, 1C0B) | 2 (1C0F, 1C0B) | 2 (1C0F, 1C0B) | 2 (1C0F, 1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | 1 (1C0B) | | | |
| | USB 3.2 Gen 2 | 9 (1C0F, 8A0B) | 9 (1C0F, 8A0B) | 5 (5A0B) | 6 (6A0B) | 3 (2A1C0B) | 4 (4A0B) | 2 (1A0B, 1C0F) | 4 (4A0B) | 3 (2A+1C0F) | 7 (2A0B, 4A1C0F) | 6 (2A0B, 4A0F) | 6 (2A0B, 4A0F) | 1 (1A0B) | 2 (2A0B) | 2 (2A0B) | 2 (2A0B) | | | |
| | USB 3.2 Gen 1 | 4 (4A0F) | 4 (4A0F) | 6 (2A0F, 4A0B) | 4 (4A0F) | 6 (4A0F, 2A0B) | 6 (4A0F, 2A0B) | 3 (1A0B, 2A0F) | 3 (2A+1C0F) | 3 (1A0B, 2A0F) | 3 (2A0B, 4A1C0F) | 7 (4A0B, 4A0F) | 6 (2A0B, 4A0F) | 4 (2A0B, 2A0F) | 4 (2A0B, 2A0F) | 4 (2A0B, 2A0F) | 4 (2A0B, 2A0F) | | | |
| USB 2.0 | 4 (4A0F) | 4 (4A0F) | 6 (2A0B, 4A0F) | 6 (2A0B, 4A0F) | 6 (2A0B, 4A0F) | 6 (2A0B, 4A0F) | 9 (4A+1C0B, 4A0F) | 6 (4A0B, 2A0F) | 8 (4A0B, 4A0F) | — | — | — | — | — | — | — | | | | |
| Networking | Wireless | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6E AX210 | | | | |
| | Ethernet | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 2 x Intel® I225-V 2.5Gb | 2 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | 1 x Intel® I225-V 2.5Gb | | | |
| | LANGuard | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | |
| | Audio codec | ALC 4082 | ALC 4082 | ALC 4080 | ALC 4082 | ALC 4080 | ALC 4080 | ALC 4080 | ALC 4080 | ALC 4080 | Realtek S1220A | Realtek ALC897 | Realtek ALC897 | Realtek ALC897 | Realtek ALC1200A | Realtek ALC1200A | Realtek ALC1200A | | | |
| | Impedance sense | — | — | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | |
| | DAC/AMP | ESS® SABRE901802C DAC | ESS® SABRE901802C DAC | Savitech SV3H712 AMP | ESS® SABRE901802C DAC | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | internal AMP | — | — | — | — | — | — | | | |
| Audio | Audio cover | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| | LED illuminated audio jacks | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| | Japanese capacitors | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| | Audio effects | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation ROG CLAVIS Type-C USB DAC bundled | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation ROG CLAVIS Type-C USB DAC bundled | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio II + Sonic Studio Virtual Mixer Sonic Radar II DTS® Sound Unbound Two-Way AI Noise Cancellation | DTS® Ultra Two-Way AI Noise Cancellation | — | — | DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation | DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation | DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation | | | |
| Cooling | Onboard Fan headers | 8P Onboard | 8P Onboard | 7 | 8 | 7 | 7 | 7 | 3 | 7 | 5 | 5 | 5 | 6 | 6 | 6 | | | | |
| | Heatsinked M.2 | S | S | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 2 (Flexible) | 1 | 1 (Flexible) | 3 | 3 | 3 | | | | |
| AI Overclocking | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| AI Cooling | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| AI Networking (GameFirst VI) | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| Two-way AI Noise-Cancellation | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| Aura Sync | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | | | |
| RGB Header | | 2*ARGB; 1*RGB Onboard 6*ARGB/ROG Fan Controller bundled | 3*ARGB; 1*RGB Onboard 6*ARGB/ROG Fan Controller bundled | 3*ARGB; 1*RGB | 3*ARGB; 1*RGB | 3*ARGB; 1*RGB | 3*ARGB; 1*RGB | 3*ARGB; 1*RGB | 1*ARGB; 1*RGB | 3*ARGB; 1*RGB | 2 x ARGB; 2 x RGB | 2*ARGB; 2*RGB | 2*ARGB; 2*RGB | 2*ARGB; 2*RGB | 2*ARGB; 2*RGB | 2*ARGB; 2*RGB | | | | |
| CPU Power Connector | | 8-pin + 8-pin | 8-pin + 8-pin | 8-pin + 8-pin | 8-pin + 8-pin | 4-pin + 8-pin | 4-pin + 8-pin | 4-pin + 8-pin | 8-pin | 4-pin + 8-pin | 8-pin + 4-pin | 8-pin + 4-pin | 8-pin + 4-pin | 8-pin + 4-pin | 8-pin + 4-pin | 8-pin + 4-pin | | | | |
| ProCool connector with solid pins | | ProCool II | ProCool II | ProCool II | ProCool II | ProCool II | ProCool II | ProCool II | ProCool II | ProCool | ProCool (8-pin) | ProCool (8-pin) | ProCool (8-pin) | ProCool | ProCool | ProCool | | | | |
| COM | | — | — | — | — | — | — | — | — | 1 | 1 | 1 | 1 | — | — | — | | | | |
| SPI / TPM | | — | — | — | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | — | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | — | — | — | | | | |

*Specifications may vary, depending on CPU. Listed specifications are based on 11th Gen Intel® Core™ desktop processors. For more details, please refer to the specifications on each product page.

All specifications are subject to change without prior notice • APR, 2021





ASUS H570 & B560 Motherboards

| | | H570 | | | | B560 | | | | | | | | | | | | |
|-----------------------------------|--|-------------------------------|---|---|---|---|---|---|---|---|---|--|---|--|--|---|---|-------------------|
| Series | | Prime | | TUF Gaming | | ROG | | | ROG | | | Prime | | | TUF Gaming | | | |
| Model | | PRIME H570-PLUS | PRIME H570M-PLUS | TUF GAMING H570-PRO WIFI | TUF GAMING H570-PRO | ROG STRIX B560-E GAMING WIFI | ROG STRIX B560-F GAMING WIFI | ROG STRIX B560-A GAMING WIFI | ROG STRIX B560-I GAMING WIFI | ROG STRIX B560-G GAMING WIFI | PRIME B560-PLUS | PRIME B560M-A | PRIME B560M-K | TUF GAMING B560-PLUS WIFI | TUF GAMING B560M-PLUS WIFI | TUF GAMING B560M-PLUS | | |
| Photo | | | | | | | | | | | | | | | | | | |
| CPU Socket | | LGA1200 | | | | | | | | | | | | | | | | |
| Chipset | | H570 | | | | | | | | | B560 | | | | | | | |
| Form factor | | ATX | mATX | ATX | ATX | ATX | ATX | ATX | Mini-ITX | mATX | ATX | mATX | mATX | ATX | mATX | mATX | | |
| Integrated power stages / DrMOS | | — | — | V | V | V | V | V | V | V | — | — | — | V | V | V | | |
| Teamed Power Architecture | | 8 | 8 | 8+1 | 8+1 | 14+2 | 8+2 | 8+2 | 6+2 | 8+2 | 8 | 8 | 8 | 8+1 | 8+1 | 8+1 | | |
| Pre-mounted I/O shield | | — | — | V | V | V | V | V | V | V | — | V | — | V | V | V | | |
| Memory | | # Slots, Maximum capacity | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 2 x DIMM, Max. 64GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 2 x DIMM, Max. 64GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | 4 x DIMM, Max. 128GB | | |
| | | Speed (MHz)* | 4600(O/C) | 4600(O/C) | 5000(O/C) | 5000(O/C) | 5333(O/C) | 5000(O/C) | 5000(O/C) | 5333(O/C) | 5000(O/C) | 4600(O/C) | 5000(O/C) | 5000(O/C) | 5000(O/C) | 5000(O/C) | 5000(O/C) | |
| | | OptiMem | OptiMem | OptiMem | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem II | OptiMem | — | — | OptiMem II | OptiMem II | OptiMem II | |
| Graphics output | | DP1.4/HDMI2.0 | DP1.4/HDMI2.0/D-Sub | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0/D-Sub | DP1.4/HDMI 2.0 | HDMI 2.0/D-Sub | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | DP1.4/HDMI2.0 | | |
| Multi-GPU support | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Expansion slots | | PCIe 4.0 x 16 | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | 1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (Qx16) | | |
| | | PCIe 3.0 x 16 | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | 1 x PCIe 3.0 x16 (max. Qx4) | — | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | — | — | 1 x PCIe 3.0 x16(max. Qx4) | 1 x PCIe 3.0 x16(max. Qx4) | | |
| | | PCIe 3.0 x 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | | PCIe x1 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | — | 2 | 2 | 1 | 2 | 3 | 1 | 1 | |
| Thunderbolt 4 support | | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | 1*header | — | — | 1*header | 1*header | 1*header | | |
| SATA 6Gb/s | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| Storage & Connectivity | | M.2 | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) | 1 x 22110 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) | |
| | | Front panel Type-C™ connector | — | — | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 1 | 1 x USB 3.2 Gen 2 | 1 x USB 3.2 Gen 2 | — | — | — | 1 x USB3.2 Gen 1 | 1 x USB3.2 Gen 1 | 1 x USB3.2 Gen 1 | |
| | | USB4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | | USB 3.2 Gen 2x2 | 3(2A0B+1C0B) | 2(1A0B+1C0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(1A0B, 1C0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) | 2(2A0B) |
| Networking | | USB 3.2 Gen 1 | 4 (40F) | 6 (20B, 40F) | 3 (10B, 20F) | 3 (10B, 20F) | 3 (10B, 20F) | 3 (10B, 20F) | 5(1C2A0F, 2A0B) | 3 (20F, 1C0B) | 4(40F) | 4(40F) | 6 (4A0B, 2A0F) | 6(2A1C0B, 2A1C0F) | 6(2A1C0B, 2A1C0F) | 6(2A1C0B, 2A1C0F) | | |
| | | USB 2.0 | 8 (40B, 40F) | 6 (20B, 40F) | 8 (40B, 40F) | 8 (40B, 40F) | 8 (40B, 40F) | 8 (40B, 40F) | 8 (40B, 40F) | 9 (4+1 audio type C0B, 40F) | 8 (50B+20F+1 audio type C0B) | 11(6A0B, 40F, 1 audio type C0B) | 8 (40B, 40F) | 7(30F, 40B) | 8 (40B, 40F) | 8 (40B, 40F) | 8 (40B, 40F) | |
| | | Wireless | 1 x M.2 Socket (Key E) | 1 x M.2 Socket (Key E) | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6E AX210 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 | 1 x M.2 Socket (Key E) | 1 x M.2 Socket (Key E) | Intel® Wi-Fi 6 | Intel® Wi-Fi 6 |
| | | Ethernet | 1 x Intel® I219-V 1Gb | 1 x Intel® I219-V 1Gb | 1 x Realtek 2.5Gb | 1 x Realtek 2.5Gb | Intel I225-V 2.5 G | Intel I225-V 2.5 G | Realtek 2.5Gb | Realtek 2.5Gb | Realtek 2.5Gb | Intel I225-V 2.5 G | Intel® I219V | Intel® I219V | Intel® I219V | 1 x Realtek 2.5Gb | 1 x Realtek 2.5Gb | 1 x Realtek 2.5Gb |
| Audio | | LANGuard | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | |
| | | Audio codec | Realtek ALC637 | Realtek ALC637 | Realtek ALC1200A | Realtek ALC1200A | ALC4080 | SupremeFX S1220A | SupremeFX S1220A | SupremeFX S1220A | SupremeFX S1220A | Realtek ALC637 | Realtek ALC637 | Realtek ALC637 | Realtek ALC637 | Realtek ALC637 | Realtek ALC637 | |
| | | Impedance sense | — | — | — | — | V | V | V | V | V | — | — | — | — | — | — | |
| | | DAC/AMP | — | — | — | — | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | Savitech SV3H712 AMP | — | — | — | — | — | — | |
| | | Audio cover | — | — | V | V | V | V | V | V | V | — | — | — | — | — | — | |
| | | LED illuminated audio jacks | — | — | — | — | — | — | — | — | — | V | V | V | — | — | — | |
| | | Japanese capacitors | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | |
| Cooling | | Audio effects | — | — | DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation | DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation | Sonic Studio III+ Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio III+ Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio III+ Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio III+ Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation | Sonic Studio III+ Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation | — | — | — | — | — | | |
| | | Onboard Fan headers | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 3 | 4 | 4 | 2 | 6 | 4 | 4 | | |
| | | Heatsinked M.2 | 1(Flexible) | — | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 1(Flexible) | 1(Flexible) | — | 1(Flexible) | 1(Flexible) | 1(Flexible) | |
| AI Overclocking | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| AI Cooling | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| AI Networking (GameFirst VI) | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Two-way AI Noise-Cancellation | | — | — | V | V | V | V | V | V | V | — | — | — | V | V | V | | |
| Aura Sync | | V | V | V | V | V | V | V | V | V | V | V | V | V | V | V | | |
| RGB Header | | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 1 x ARGB, 1 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 1x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | 2 x ARGB, 2 x RGB | | |
| CPU Power Connector | | 8-pin | 8-pin + 4-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | 8-pin | | |
| ProCool connector with solid pins | | — | — | ProCool | ProCool | 8 pin (ProCool) | 8 pin (ProCool) | 8 pin (ProCool) | 8 pin (ProCool) | 8 pin (ProCool) | — | — | — | ProCool | 8 pin (ProCool) | 8 pin (ProCool) | | |
| COM | | 1*header | 1*header | 1*header | 1*header | — | — | — | — | — | — | — | — | 1*header | 1*header | 1*header | | |
| SPI / TPM | | 1*SPI-TPM header (14-1 pin) | 1*SPI-TPM header (14-1 pin) | — | — | 1 x SPI TPM header (14-1pin) | 1 x SPI TPM header (14-1pin) | 1 x SPI TPM header (14-1pin) | — | 1 x SPI TPM header (14-1pin) | 1 x SPI TPM header (14-1pin) | 1 x SPI TPM header (14-1pin) | 1 x SPI TPM header (14-1pin) | — | — | — | | |

*Specifications may vary, depending on CPU. Listed specifications are based on 11th Gen Intel® Core™ desktop processors. For more details, please refer to the specifications on each product page.

All specifications are subject to change without prior notice • APR, 2021

