



ASUS X570 Motherboards

Series	ROG								TUF Gaming			Prime			
Model	ROG Crosshair VIII Dark Hero	ROG Crosshair VIII Formula	ROG Crosshair VIII Hero	ROG Crosshair VIII Hero (Wi-Fi)	ROG Crosshair VIII Impact	ROG Strix X570-E Gaming	ROG Strix X570-F Gaming	ROG Strix X570-I Gaming	TUF Gaming X570 Pro Wi-Fi	TUF Gaming X570-Plus (Wi-Fi)	TUF Gaming X570-Plus	Prime X570-Pro	Prime X570-P	Pro WS X570-ACE	
Photo															
CPU Socket	AM4														
Chipset	X570														
Form factor	ATX	ATX	ATX	ATX	Mini-DTX	ATX	ATX	Mini-ITX	ATX	ATX	ATX	ATX	ATX	ATX	
Teamed power architecture	14+2	14+2	14+2	14+2	8+2	12+4	12+2	8+2	12+2	12+2	12+2	12+2	8+4	12+2	
Memory	# Slots, Maximum capacity	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	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	
	Speed (MHz)*	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	5100 (D.C.)	
	OptiMem	OptiMem III	OptiMem III	OptiMem III	OptiMem III	OptiMem	OptiMem	OptiMem	OptiMem	OptiMem	OptiMem	OptiMem	OptiMem	OptiMem	
Graphics output	—	—	—	—	—	HDMI 2.0 DP 1.2	HDMI 2.0 DP 1.2	HDMI 2.0 DP 1.4	HDMI 1.4b DP 1.2	HDMI 1.4b DP 1.2	HDMI 1.4b DP 1.2	HDMI 2.0b DP 1.2	HDMI 1.4b	HDMI 2.0b DP 1.2	
Multi-GPU support	3-way CFV/2-way SLI	3-way CFV/2-way SLI	3-way CFV/2-way SLI	3-way CFV/2-way SLI	—	3-way CFV/2-way SLI	3-way CFV/2-way SLI	—	2-way CFV	2-way CFV	2-way CFV	3-way CFV/2-way SLI	2-way CFV	3-way CFV/2-way SLI	
Expansion slots	PCIe 4.0 x16	2 x PCIe 4.0 x16 SafeSlots (6x16 or x8/x8) 1 x PCIe 4.0 x16 (max. 6x4)	2 x PCIe 4.0 x16 SafeSlots (6x16 or x8/x8) 1 x PCIe 4.0 x16 (max. 6x4)	2 x PCIe 4.0 x16 SafeSlots (6x16 or x8/x8) 1 x PCIe 4.0 x16 (max. 6x4)	1 x PCIe 4.0 x16 SafeSlot (6x16)	2 x PCIe 4.0 x16 SafeSlots (6x16 or x8/x8) 1 x PCIe 4.0 x16 (6x4)	2 x PCIe 4.0 x16 SafeSlots (6x16 or x8/x8) 1 x PCIe 4.0 x16 (6x4)	1 x PCIe 4.0 x16 (6x16)	1 x PCIe 4.0 x16 (6x16)	1 x PCIe 4.0 x16 (6x16) 1 x PCIe 4.0 x16 (max. 6x4)	1 x PCIe 4.0 x16 (6x16) 1 x PCIe 4.0 x16 (max. 6x4)	1 x PCIe 4.0 x16 (6x16) 1 x PCIe 4.0 x16 (max. 6x4)	2 x PCIe 4.0 x16 (6x16 or x8/x8) 1 x PCIe 4.0 x16 (max. 6x4)	1 x PCIe 4.0 x16 (6x16) 1 x PCIe 4.0 x16 (max. 6x4)	2 x PCIe 4.0 x16 (6x16 or x8/x8) 1 x PCIe 4.0 x16 (max. 6x4)
	PCIe 4.0 x1	1	1	1	—	2	2	—	2	2	3	3	3	1	
Thunderbolt 3 support	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Storage & Connectivity	SATA 6Gb/s	8	8	8	8	4	8	4	8	8	8	6	6	4	
	M.2	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 4.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 4.0 x4 & SATA)	2 x 2210 (PCIe 4.0 x4 & SATA)	2 x 2210 (PCIe 4.0 x4 & SATA)	2 x 2210 (PCIe 4.0 x4 & SATA)	2 x 2210 (PCIe 4.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1 x 2280 (PCIe 4.0 x4 & SATA)	1 x 2210 (SATA & PCIe 4.0 x4 mode) 1 x 2280 (PCIe 4.0 x2 mode)
	Front panel Type-C™ connector	1 x USB 3.2 GEN 2 front panel Type-C™ connector	1 x USB 3.2 GEN 2 front panel Type-C™ connector	1 x USB 3.2 GEN 2 front panel Type-C™ connector	1 x USB 3.2 GEN 2 front panel Type-C™ connector	1 x USB 3.2 GEN 2 front panel Type-C™ connector	1xUSB 3.2 GEN 2 front panel Type-C™ connector	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	—	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	1xUSB 3.2 GEN 1 front panel Type-C™ connector
	USB 3.2 GEN 2	9 (7A+1C 6B, 100F)	9 (7A+1C 6B, 100F)	9 (7A+1C 6B, 100F)	9 (7A+1C 6B, 100F)	7 (5A+1C6B, 100F)	9(7A+1C6B, 100F)	5(3A+1C6B, 100F)	4 (3A+1C6B)	4(2A1C6B, 100F)	3 (2A+1C6B)	3 (2A+1C6B)	4 (4A 6B)	4 (4A 6B)	5 (4A1C6B)
	USB 3.2 GEN 1	6 (40B, 20F)	8 (40B, 40F)	6 (40B, 20F)	6 (40B, 20F)	4 (20F, 20B)	2 (20F)	6 (40B, 20F)	6 (40B, 20F)	6 (4B2F)	6 (4B2F)	6 (4B2F)	6 (20B, 40F)	6 (20B, 40F)	6 (2B4F)
USB 2.0	4 (40F)	4 (40F)	4 (40F)	4 (40F)	2 (20F)	4 (40B)	2 (20F)	4 (40B)	4 (4F)	4 (4F)	4 (4F)	4 (40F)	4 (40F)	4F	
Wireless	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	—	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	—	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	Intel® Wireless-AC 9260	—	—	—	—	
Networking	Ethernet	1 x Realtek RTL8125-CG 2.5Gb 1 x Intel® I211-AT 1Gb	1 x Aquantia AOC111C 5Gb 1 x Intel® I211-AT 1Gb	1 x Realtek RTL8125-CG 2.5Gb 1 x Intel® I211-AT 1Gb	1 x Realtek RTL8125-CG 2.5Gb 1 x Intel® I211-AT 1Gb	Intel® Ethernet Controller I211-AT Realtek® 2.5G LAN	Intel® I211AT Realtek® 2.5G LAN	Intel® I211AT	Intel® I211-AT 1Gb	Intel® I225-V 2.5Gb	Realtek® L8200A 1Gb	Realtek® L8200A 1Gb	Intel® I211AT 1Gb	Realtek® RTL8111H 1Gb	Intel® I211-AT 1Gb Realtek® 8117 1Gb
	LANGuard	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Audio	SupremeFX S1220	SupremeFX S1220	SupremeFX S1220	SupremeFX S1220	SupremeFX S1220	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	Realtek® S1220A	Realtek® S1220A	Realtek® S1220A	Realtek® S1220A	Realtek® S1220A	Realtek® S1220A	
Impedance sense	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Audio AMP	V	V	V	V	V	V	V	V	V	V	V	V	V	Internal Audio AMP	
Audio cover	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
LED illuminated audio jacks	—	—	—	—	V	—	—	—	—	—	—	—	—	—	
Japanese capacitors	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Audio effects	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	Sonic Studio III + Sonic Studio Virtual Mixer / Sonic Radar III DTS® Sound Unbound	DTS Custom for GAMING Headsets	DTS Custom for GAMING Headsets	DTS Custom for GAMING Headsets	Crystal Sound 3	—	—	
Cooling	Onboard Fan headers Heatsinked M.2	8 2	8 2	8 2	8 2	6 2	7 2	3 1	6 1	6 1	6 1	7 1	5 —	6 1	
AI Networking (GameFirst VI)	V	—	—	—	—	—	—	—	—	—	—	—	—	—	
Aura Sync	V	V	V	V	V	V	V	V	V	V	V	V	V	—	
RGB header	2*ARGB, 2*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	2*ARGB, 1*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	1*ARGB, 1*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	—	
CPU power connector	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin	8-pin + 4-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	
ProCool	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool II	
ODM	—	—	—	—	—	—	—	—	V	V	V	V	V	V	
SPR / TPM	V	—	V	V	—	—	V	—	V	V	V	V	V	—	

*Performance may vary by CPU/APU. For more details, please refer to the specifications on each product page.





ASUS B550 Motherboards

Series	ROG						TUF Gaming				Prime					
Model	ROG STRIX B550-XE GAMING	ROG STRIX B550-E GAMING	ROG STRIX B550-F GAMING	ROG STRIX B550-F GAMING (Wi-Fi)	ROG STRIX B550-I GAMING	ROG STRIX B550-A GAMING	TUF GAMING B550-PLUS (Wi-Fi)	TUF GAMING B550-PLUS	TUF GAMING B550M-PLUS (Wi-Fi)	TUF GAMING B550M-PLUS	PRIME B550-PLUS	PRIME B550M-A (Wi-Fi)	PRIME B550M-A AC	PRIME B550M-A	PRIME B550M-K	
Photo																
CPU Socket	AM4															
Chipset	B550															
Form factor	ATX	ATX	ATX	ATX	Mini ITX	ATX	ATX	ATX	Micro ATX	Micro ATX	ATX	Micro ATX	Micro ATX	Micro ATX	Micro ATX	
Teamed power architecture	14+2	14+2	12+2	12+2	8+2	12+2	8+2	8+2	8+2	8+2	—	—	—	—	—	
Memory	# Slots, Maximum capacity	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	4 x DIMM, Max. 128GB	4 x DIMM, Max. 128GB	
	Speed (MHz)*	5100 (O.C.)	5100 (O.C.)	5100 (O.C.)	5100 (O.C.)	5100+ (O.C.)	5100 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	4800 (O.C.)	
	OptiMem	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	—	—	—	—	—	—	—	—	
Graphics output	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.4	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) DP 1.2	HDMI 2.1(4K@60Hz) D-Sub / DVI-D	HDMI 2.1(4K@60Hz) D-Sub / DVI-D	HDMI 2.1(4K@60Hz) D-Sub / DVI-D	HDMI 2.1(4K@60Hz) D-Sub / DVI-D	
	Multi-GPU support	3-way CFX/ 2-way SLI	3-way CFX/ 2-way SLI	2-way CFX	2-way CFX	—	2-way CFX	2-way CFX	2-way CFX	2-way CFX	2-way CFX	—	—	—	—	
Expansion slots	PCIe 4.0 x 16	2 x PCIe 4.0 x16 SafeSlots (6x16)	2 x PCIe 4.0 x16 SafeSlots (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot Core (6x16)	1 x PCIe 4.0 x16 SafeSlot Core (6x16)	1 x PCIe 4.0 x16 SafeSlot Core (6x16)	1 x PCIe 4.0 x16 SafeSlot Core (6x16)	
	PCIe 3.0 x 16	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	—	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	1 x PCIe 3.0 x16 (max. 6x4)	—	—	—	—	
	PCIe x1	2	2	3	3	—	3	3	3	1	1	3	2	2	2	
Thunderbolt 3 support	1*header	1*header	1*header	1*header	—	1*header	1*header	1*header	—	—	1*header	—	—	—	—	
Storage & Connectivity	SATA 6Gb/s	6	6	6	6	4	6	6	4	4	6	4	4	4	4	
	M.2	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1 x 2280/PCIe 4.0 x4 & SATA 1 x 2280/PCIe 3.0 x4 & SATA	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 22110 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)
	Front panel Type-C™ connector	1xUSB 3.2 GEN 2 front panel Type-C™ connector	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	—	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	—	—	—	—	—	—	—	—	
	USB 3.2 GEN 2	4 (2A+1C @6, 10Gb)	4 (2A+1C @6, 10Gb)	2(1A+1C@8)	2(1A+10Gb)	5(3A+10Gb, 10Gb)	2(1A+10Gb)	2 @B (1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 (2A, @B)	2 (2A, @B)	2 (2A, @B)	2 (2A, @B)
	USB 3.2 GEN 1	2 (2@F)	2 (2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	2 (2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)
USB 2.0	9 (5@B, 4@F)	9 (5@B, 4@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	3 (1@B, 2@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	6 (2@B, 4@F)	4 (4@F)	4 (4@F)	4 (4@F)	4 (4@F)	
Wireless	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	—	Intel® Wi-Fi 6 AX200	Intel® Wi-Fi 6 AX200	—	Intel® Wi-Fi 6 AX200	—	Intel® Wi-Fi 6 AX200	—	—	Intel® Wi-Fi 6 AX200	Realtek Wi-Fi 5 8821CE	—	—	
Networking	Ethernet	Intel® I225-V 2.5Gb	Intel® I225-V 2.5Gb	Intel® I225-V 2.5Gb	Intel® I225-V 2.5Gb	Intel® I225-V 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	
	LANGuard	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Audio	Audio codec	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC 887/897	Realtek ALC 887/897	Realtek ALC 887/897	Realtek ALC 887/897	Realtek ALC 887/897	
	Impedance sense	V	V	V	V	V	—	—	—	—	—	—	—	—	—	
	Audio AMP	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
	Audio cover	V	V	V	V	—	V	V	V	V	V	V	V	V	V	
	LED illuminated audio jacks	—	—	—	—	V	—	—	—	—	—	—	—	—	—	
	Japanese capacitors	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Cooling	Onboard Fan headers	6	6	6	6	4	6	6	4	4	6	4	4	4	3	
	Heatsinked M.2	2	2	2	2	2	2	1	1	1	—	—	—	—	—	
AI Networking (GameFirst VI)	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, 2*RGB	2*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 1*RGB	1*ARGB, 2*RGB	2*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	1*ARGB, 2*RGB	—	
CPU power connector	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin	8-pin + 4-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	
ProCool	ProCool	ProCool	ProCool	ProCool	ProCool II	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	—	—	—	—	
ODM	—	—	—	—	—	—	V	V	V	V	V	V	V	V	V	
SPR / TPM	—	—	—	—	—	—	V	V	V	V	V	V	V	V	V	

*Performance may vary by CPU/APU. For more details, please refer to the specifications on each product page.





ASUS B450 Motherboards

Series	ROG		TUF Gaming				Prime	
Model	ROG Strix B450-F Gaming II	ROG Strix B450-I Gaming	TUF Gaming B450-PLUS II	TUF Gaming B450M Pro-S	TUF Gaming B450M-PRO II	TUF Gaming B450M-PLUS II	Prime B450M-A II	Prime B450M-K II
Photo								
CPU Socket	AM4							
Chipset	B450							
Form factor	ATX	Mini-ITX	ATX	mATX	mATX	mATX	mATX	mATX
Power architecture	8+4	6+1	8+2	8+2	8+2	4+2	4+2	4+2
Memory	# Slots, Maximum capacity	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
	Speed (MHz)*	4400 (D.C.)	4400 (D.C.)	4400 (D.C.)	4400 (D.C.)	4400 (D.C.)	4400 (D.C.)	4400 (D.C.)
	OptiMem	—	—	—	—	—	—	—
Graphics output	HDMI 2.0b DP 1.2	HDMI 2.0b	HDMI 2.0b DP 1.2	HDMI 2.0b DP 1.2	HDMI 2.0b DP 1.2	HDMI 2.0b DP 1.2	HDMI 2.0b DP 1.2	HDMI 2.0b DP 1.2
Multi-GPU support	3-way CFX	—	2-way CFX	2-way CFX	2-way CFX	2-way CFX	—	—
Expansion slots	PCIe 3.0 x16	2 x PCIe 3.0 x16 (x16 or x8/x4)	1 x PCIe 3.0 x16 (x16)	1 x PCIe 3.0 x16 (x16)	1 x PCIe 3.0 x16 (x16)	1 x PCIe 3.0 x16 (x16)	1 x PCIe 3.0 x16 (x16)	1 x PCIe 3.0 x16 (x16)
	PCIe 2.0	1 x PCIe 2.0 x16 (max. 4x4)	—	1 x PCIe 2.0 x16 (max. 4x4)	1 x PCIe 2.0 x16 (max. 4x4)	1 x PCIe 2.0 x16 (max. 4x4)	—	—
	PCIe 2.0 x1	3	—	3	1	1	2	2
Thunderbolt 3 support	—	—	—	—	—	—	—	—
Storage & Connectivity	SATA 6Gb/s	6	4	6	4	6	6	6
	M.2	1*M.2 2280 (PCIe 3.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4)	1*M.2 2280 (PCIe 3.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4)	1*M.2 22110 (PCIe 3.0 x4 & SATA) 1*M.2 2280 (PCIe 2.0 x4)	1*M.2 2280 (PCIe 3.0 x4 & SATA) 1*M.2 22110 (PCIe 3.0 x4)	1*M.2 2280 (PCIe 3.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x2 & SATA)	1*M.2 22110 (PCIe 3.0 x4 & SATA)	1*M.2 2280 (PCIe 3.0 x4 & SATA)
	Front panel Type-C™ connector	—	—	—	—	—	—	—
	USB 3.2 GEN 2	2 (2A0B)	2(2A0B)	2 (1A+100B)	2 (1A+1C 0B)	2 (1A+1C 0B)	1 (1A 0B)	2 (2A 0B)
	USB 3.2 GEN 1	6 (3A+1C0B, 20F)	6 (4A0B, 20F)	6 (4A0B, 20F)	6 (4A0B, 20F)	6 (4A0B, 20F)	5(2A+1C0B, 20F)	6 (4A0B, 20F)
USB 2.0	4 (20B, 40F)	2 (20F)	6 (20B, 40F)	6 (20B, 40F)	6 (20B, 40F)	6 (20B, 40F)	4 (40F)	
Wireless	M.2 E Key only	Realtek 802.11	—	—	—	—	—	—
Networking	Ethernet	Intel® I211-AT 1Gb	Intel® I211-AT 1Gb	Realtek® L8200A 1Gb	Realtek® RTL8125B 2.5Gb	Realtek® RTL8111H 1Gb	Realtek® RTL8111H 1Gb	Realtek® RTL8111H 1Gb
	LANGuard	V	V	V	V	V	V	V
Audio	Audio codec	SupremeFX S1220A	SupremeFX S1220A	Realtek® ALC1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC887/897	Realtek ALC887/897
	Impedance sense	V	V	—	—	—	—	—
	Audio AMP	V	V	—	—	—	—	—
	Audio cover	V	—	V	V	V	V	—
	LED illuminated audio jacks	—	V	—	—	—	—	—
	Japanese capacitors	V	V	V	V	V	V	V
	Audio effects	Sonic Studio III + Sonic Studio Virtual Mixer Sonic Radar III	Sonic Studio III + Sonic Studio Virtual Mixer Sonic Radar III	DTS Custom for Gaming Headsets	DTS Custom for Gaming Headsets	DTS Custom for Gaming Headsets	DTS Custom for Gaming Headsets	—
Cooling	Onboard Fan headers	6	3	4	4	3	3	2
	Heatsinked M.2	1	—	—	1	—	—	—
AI Networking (GameFirst VI)	V	GameFirst IV	—	—	—	—	—	
Aura Sync	V	V	V	V	V	V	V	
RGB header	1*ARGB, 2*RGB	1*ARGB, 1*RGB	2*RGB	2*RGB	2*RGB	1*RGB	1*RGB	
CPU power connector	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	
ProCool	—	—	—	ProCool	—	—	—	
ODM	V	—	V	V	V	V	V	
SPI / TPM	—	—	V	V	V	V	V	

*Performance may vary by CPU/APU. For more details, please refer to the specifications on each product page.

