



ASUS B550 Motherboards

Series	ROG				TUF Gaming			Prime				
Model	ROG STRIX B550-E GAMING	ROG STRIX B550-F GAMING	ROG STRIX B550-F GAMING (WI-FI)	ROG STRIX B550-I GAMING	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	PRIME B550M-K	
CPU Socket	AM4											
Chipset	B550											
Form factor	ATX	ATX	ATX	Mini ITX	ATX	Micro ATX	Micro ATX	ATX	Micro ATX	Micro ATX	Micro ATX	
Teamed power architecture	14+2	12+2	12+2	8+2	8+2	8+2	8+2	—	—	—	—	
Headphones	# 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	4 x DIMM, Max. 128GB	4 x DIMM, Max. 128GB	4 x DIMM, Max. 128GB	4 x DIMM, Max. 128GB	
	Memory speed (MHz)	4400+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	5100+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	4400+ (O.C.)	
Graphics output	OptiMem II	OptiMem II	OptiMem II	OptiMem II	—	—	—	—	—	—	—	
	Multi-GPU support	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	2-way CFX	2-way CFX	
Expansion slots	PCIe 4.0 x16	2 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (Qx16)	1 x PCIe 4.0 x16 SafeSlots (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)	
	PCIe x1	2	3	—	—	3	1	3	2	2	2	
Thunderbolt 3 support	1*header	1*header	1*header	—	1*header	—	—	1*header	—	—	—	
SATA 6Gb/s	6	6	6	4	6	4	4	6	4	4	4	
Storage & Connectivity	M.2	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1 x 2280/PCIe 4.0 x4 & SATA 1 x 2280/PCIe 3.0 x4 & SATA	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1*M.2 2280 (PCIe 4.0 x4 & SATA) 1*M.2 2210 (PCIe 3.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 2210 (PCIe 4.0 x4 & SATA) 1*M.2 2280 (PCIe 3.0 x4 & SATA)	1*M.2 2210 (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	—	—	—	—	—	—	
	USB 3.2 GEN 2	4 (2A+1C 09B, 10DF)	2(1A1C)	2(1A1C)	4(3A+1C 09B)	2 09B (1A1C)	2 09B (1A1C)	2 09B (1A1C)	2 09B (1A1C)	2 (2A, 09B)	2 (2A, 09B)	
	USB 3.2 GEN 1	2 (2DF)	6 (40B, 20DF)	6 (40B, 20DF)	2 (2A0F)	6 (40B, 20DF)	6 (40B, 20DF)	6 (40B, 20DF)	6 (40B, 20DF)	6 (40B, 20DF)	6 (40B, 20DF)	
	USB 2.0	9 (50B, 40F)	6 (20B, 40F)	6 (20B, 40F)	3 (10B, 20F)	6 (20B, 40F)	6 (20B, 40F)	6 (20B, 40F)	6 (20B, 40F)	4 (40F)	4 (40F)	
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	—	—	
Networking	Ethernet LANGuard	—	—	—	Realtek RTL8125B 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8125B 2.5Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	Realtek RTL8111H 1Gb	
	Audio codec	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	Realtek ALC S1220A	Realtek ALC S1220A	Realtek ALC 887	Realtek ALC 887	Realtek ALC 887	Realtek ALC 887	
Audio	Impedance sense	V	V	V	V	—	—	—	—	—	—	
	Audio AMP	V	V	V	V	—	—	—	—	—	—	
	Audio cover	V	V	V	—	V	V	V	—	—	—	
	LED illuminated audio jacks	—	—	—	—	—	—	—	—	—	—	
	Japanese capacitors	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	—	DTS Custom for Gaming headsets	DTS Custom for Gaming headsets	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	
Cooling	Onboard Fan headers	6	6	6	4	4	4	6	4	4	3	
	Rearlinked M.2	2	2	2	1	1	1	—	—	—	—	
AI Networking (GameFirst VI)	V	V	V	V	—	—	—	—	—	—		
Aura Sync	V	V	V	V	—	V	V	V	V	V		
RGB header	2*ARGB, 2*RGB	1*ARGB, 2*RGB	1*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	1*ARGB, 2*RGB		
CPU power connector	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin		
ProCool	ProCool	ProCool	ProCool	ProCool	—	—	—	ProCool	—	—		
COM	—	—	—	—	V	V	V	V	V	V		
SPR / TPM	—	—	—	—	V	V	V	V	V	V		

