



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	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	PRIME B550M-K
CPU Socket	AM4					AM4				AM4			
Chipset	B550												
Form factor	ATX	ATX	ATX	Mini ITX	ATX	ATX	ATX	Micro ATX	Micro ATX	ATX	Micro ATX	Micro ATX	Micro ATX
Teamed power architecture	14+2	12+2	12+2	8+2	12+2	8+2	8+2	8+2	8+2	—	—	—	—
Memory	# Slots	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
	Maximum capacity	4600	4600	4600	5100+	4600(O.C)	4600(O.C)	4600(O.C)	4600(O.C)	4600(O.C)	4600(O.C)	4600(O.C)	4600(O.C)
	Speed	5100	5100	5100	5100+	4800(O.C)	4800(O.C)	4800(O.C)	4800(O.C)	4800(O.C)	4800(O.C)	4800(O.C)	4800(O.C)
Graphics output	OptiMem	OptiMem II	OptiMem II	OptiMem II	OptiMem II	—	—	—	—	—	—	—	—
	Multi-GPU support	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) DP 1.2	HDMI 2.1(4K@60HZ) DP 1.2
Expansion slots	PCIe 4.0 x16	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 (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)	1 x PCIe 4.0 x16 SafeSlot (6x16)
	PCIe 3.0 x16	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	3	3	—	3	3	3	1	1	3	2	2
Storage & Connectivity	Thunderbolt 3 support	1*header	1*header	1*header	—	1*header	1*header	—	—	1*header	—	—	—
	SATA 6Gb/s	6	6	6	4	6	6	4	4	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 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 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 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)
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	—	—	—	—	—	—	—	—	—
Wireless	USB 3.2 GEN 2	4 (2A+1C @B, 10Gb)	2(1A1C)	2(1A1C)	4(3A+1C @B)	2(1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 @B (1A1C)	2 (2A, @B)	2 (2A, @B)	2 (2A, @B)
	USB 3.2 GEN 1	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)
	USB 2.0	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)	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	—
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
	LANGuard	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	SupremeFX S1220A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC 887	Realtek ALC 887	Realtek ALC 887
	Impedance sense	V	V	V	V	V	—	—	—	—	—	—	—
	Audio AMP	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
	LED illuminated audio jacks	—	—	—	V	—	—	—	—	—	—	—	—
	Japanese capacitors	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	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	6	6	4	6	6	4	4	4	4	4	3
	Heatsinked M.2	2	2	2	1	2	2	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	
RGB header	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	
CPU power connector	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	
ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	ProCool	
COM	—	—	—	—	—	V	V	V	V	V	V	V	
SPi / TPM	—	—	—	—	—	V	V	V	V	V	V	V	

