



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+1C@8)	5(3A+1C@8, 10Gb)	2(1A+1C@8)	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)	
Networking	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	—	—	
	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 codec	SupremeFX S1220A	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	V	—	—	—	—	—	—	—	—	—
Audio	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.

