



ASUS B550 Motherboards

Series	ROG						ProArt	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	ProArt B550-CREATOR	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	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	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	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.)	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.)	
	OptiMem	OptiMem II	OptiMem II	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 1.2	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	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	
	Multi-GPU support	3-way CFV/ 2-way SLI	3-way CFV/ 2-way SLI	2-way CFV	2-way CFV	—	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	2-way CFV	
	Expansion slots	2 x PCIe 4.0 x16 SafeSlots (x16)	2 x PCIe 4.0 x16 SafeSlots (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot (x16)	1 x PCIe 4.0 x16 SafeSlot Core (x16)	1 x PCIe 4.0 x16 SafeSlot Core (x16)	1 x PCIe 4.0 x16 SafeSlot Core (x16)	1 x PCIe 4.0 x16 SafeSlot Core (x16)
Thunderbolt 3 support	SATA 6Gb/s	6	6	6	6	4	6	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 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	—	1xUSB 3.2 GEN 2 front panel Type-C™ connector	—	—	—	—	—	—	—	—	
Storage & Connectivity	USB 3.2 GEN 2	4 (2A+1C @B, 10Gb)	4 (2A+1C @B, 10Gb)	2(1A+10Gb)	2(1A+10Gb)	5(3A+10Gb, 10Gb)	2(1A+10Gb)	6 (4A+2C @B)	2 @B (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)	2 (2@F)	6 (4@B, 2@F)	6 (4@B, 2@F)	2 (2@F)	6 (4@B, 2@F)	3 (2A+1C @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 (2A @B, 4A @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	—	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	Intel® I225-V 2.5Gb	2 x 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	
	LANGuard	V	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	SupremeFX S1220A	Realtek S1220A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC S1200A	Realtek ALC 887/897	Realtek ALC 887/897	Realtek ALC 887/897	
	Impedance sense	V	V	V	V	V	V	V	—	—	—	—	—	—	—	—	
	Audio AMP	V	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	V	V	
	LED illuminated audio jacks	—	—	—	—	V	—	—	—	—	—	—	—	—	—	—	
	Japanese capacitors	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Cooling	Onboard Fan headers	6	6	6	6	4	6	7	6	6	4	4	4	4	4	3	
	Heatsinked M.2	2	2	2	2	2	2	2	2	1	1	1	1	—	—	—	
AI Networking (GameFirst VI)	V	V	V	V	V	V	CreationFirst	—	—	—	—	—	—	—	—	—	
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	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 + 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	ProCool	ProCool	ProCool	ProCool	—	
COM	—	—	—	—	—	—	—	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.

