



ASUS Z590 Motherboards

Series		ROG						Prime			TUF Gaming		
Model	ROG MAXIMUS XIII EXTREME GLACIAL	ROG MAXIMUS XIII EXTREME	ROG MAXIMUS XIII HERO	ROG STRIX Z590-E GAMING WIFI	ROG STRIX Z590-F GAMING WIFI	ROG STRIX Z590-A GAMING WIFI	ROG STRIX Z590-I GAMING WIFI	PRIME Z590-A	PRIME Z590-P	PRIME Z590M-PLUS	TUF GAMING Z590-PLUS WIFI	TUF GAMING Z590-PLUS	
Photo													
CPU Socket	LGA1200												
Chipset	Z590												
Form factor	EATX	EATX	ATX	ATX	ATX	ATX	Mini-ITX	ATX	ATX	mATX	ATX	ATX	
Integrated power stages / DrMOS	V	V	V	V	V	V	V	V	V	V	V	V	
Teamed Power Architecture	18+2	18+2	14+2	14+2	14+2	14+2	8+2	14+2	10+1	8+1	14+2	14+2	
Pre-mount I/O shield	V	V	V	V	V	V	V	V	V	V	V	V	
Memory	# Slots, Maximum capacity	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	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	
	Speed (MHz)*	5333(O/C)	5333(O/C)	5333(O/C)	5333(O/C)	5333(O/C)	5333(O/C)	5333(O/C)	5333(O/C)	5133(O/C)	5133(O/C)	5133(O/C)	
	OptiMem	OptiMem III	OptiMem III	OptiMem III	OptiMem III	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	
Graphics output	HDMI 2.0	HDMI 2.0	HDMI 2.0	DP 1.4/HDMI 2.0	DP 1.4/HDMI 2.0	DP 1.4/HDMI 2.0	HDMI 2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0/DVI-D	DP1.4/HDMI2.0	DP1.4/HDMI2.0	
Multi-GPU support	NVIDIA 2-Way SLI®	NVIDIA 2-Way SLI® (Support two 3-slot graphics cards)	NVIDIA 2-Way SLI®	NVIDIA 2-Way SLI®	—	—	—	—	—	—	—	—	
Expansion slots	PCIe 4.0 x 16	2 x PCIe 4.0 x16 (8x16 or 8x8)	2 x PCIe 4.0 x16 (8x16 or 8x8)	2 x PCIe 4.0 x16 SafeSlot (8x16, 8x8x8, 8x8x4)	2 x PCIe 4.0/3.0 x16 SafeSlot (8x16, 8x8x8, 8x8x4)	2 x PCIe 4.0/3.0 x16 SafeSlots (8x16, 8x8x4x4)	3 x PCIe 4.0/3.0 x16 SafeSlots (8x16, 8x8x4x4)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	3 x PCIe 4.0/3.0 x16 SafeSlots (8x16, 8x8x4x4)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	
	PCIe 3.0 x 16	—	—	1 x PCIe 3.0 x16(max, 8x4)	1 x PCIe 3.0 x16(max, 8x4)	1 x PCIe 3.0 x16(max, 8x4)	—	—	1 x PCIe 3.0 x16(max, 8x4)	1 x PCIe 3.0 x16(max, 8x4)	1 x PCIe 3.0 x16(max, 8x4)	1 x PCIe 3.0 x16(max, 8x4)	
	PCIe 3.0 x 4	1 x PCIe 3.0 x4	1 x PCIe 3.0 x4	—	—	—	1 x PCIe 3.0 x4	—	1 x PCIe 3.0 x4	—	—	—	
	PCIe x1	—	—	1	—	—	—	—	—	2	2	2	
	PCIe	—	—	—	—	—	—	—	—	—	—	—	
Thunderbolt 4 support	2*onboard	2*onboard	2*onboard	1*header	1*header	1*header	1*onboard	1*header	1*header	1*header	1*header	1*header	
SATA 6Gb/s	6	6	6	6	6	6	4	6	4	5	6	6	
Storage & Connectivity	M.2	3 x 2280 (PCIe 4.0 x4) 1 x DIMM_2_1 (PCIe 3.0 x4 & SATA) 1 x DIMM_2_2 (PCIe 3.0 x4)	3 x 2280 (PCIe 4.0 x4) 1 x DIMM_2_1 (PCIe 3.0 x4 & SATA) 1 x DIMM_2_2 (PCIe 3.0 x4)	1 x 2210 (PCIe 4.0 x4) 3 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 2 x 2210 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 2 x 2210 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 1 x 2210 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2210 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4 & SATA)
	Front panel Type-C™ connector	1 x USB 3.2 Gen 2x2 1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2x2 1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2x2	1 x USB 3.2 Gen 2x2	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 1	—	1 x USB 3.2 Gen 1	
	USB4	2 (2x08B)	2 (2x08B)	2 (2x08B)	—	—	—	1 (1x08B)	—	—	—	—	
	USB 3.2 Gen 2x2	1 (1x08F)	1 (1x08F)	1 (1x08F)	1 (1x08B)	1 (1x08B)	1 (1x08B)	1 (1x08B)	1 (1x08B)	1 (1x08B)	1 (1x08B)	1 (1x08B)	
	USB 3.2 Gen 2	9 (1x08F, 8x08B)	9 (1x08F, 8x08B)	6 (6x08B)	3 (2x108B, 1x08F)	4 (4x08B)	2 (1x08B, 1x08F)	4 (4x08B)	3 (2x108B, 1x08F)	4 (4x08B)	2 (2x08B, 2x08F)	2 (2x08B, 2x08F)	
USB 3.2 Gen 1	4 (4x08F)	4 (4x08F)	4 (4x08F)	6 (4x08F, 2x08B)	6 (4x08F, 2x08B)	3 (2x108B, 1x08F)	3 (1x08B, 2x08F)	3 (2x108B, 1x08F)	7 (2x08B, 4x108B)	6 (2x08B, 4x08F)	4 (2x08B, 2x08F)		
USB 2.0	4 (4x08F)	4 (4x08F)	6 (2x08B, 4x08F)	6 (2x08B, 4x08F)	6 (2x08B, 4x08F)	9 (4x108B, 4x08F)	6 (4x08B, 2x08F)	8 (4x08B, 4x08F)	7 (4x08B, 3x08F)	6 (2x08B, 4x08F)	6 (2x08B, 4x08F)		
Wireless	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6	Intel® Wi-Fi 6E AX210	—	1 x Vertical M.2 Socket (Key E)	1 x M.2 Socket (Key E)	Intel® Wi-Fi 6	—	
Networking	Ethernet	1 x Intel® I225-V 2.5Gb 1 x Marvel® AQtion AQC113CS 10Gb	1 x Intel® I225-V 2.5Gb 1 x Marvel® AQtion AQC113CS 10Gb	2 x Intel® I225-V 2.5Gb	2 x Intel® I225-V 2.5Gb	1 x Intel® I225-V 2.5Gb	1 x Intel® I225-V 2.5Gb	1 x Intel® I225-V 2.5Gb	1 x Intel® I225-V 2.5Gb	1 x Realtek 2.5Gb	1 x Intel® I219-V 1Gb	1 x Intel® I225-V 2.5Gb	
	LANGuard	V	V	V	V	V	V	V	V	V	V	V	
Audio	Audio codec	ALC 4082	ALC 4082	ALC 4082	ALC 4080	ALC 4080	ALC 4080	ALC 4080	Realtek S1220A	Realtek ALC897	Realtek ALC1200A	Realtek ALC1200A	
	Impedance sense	V	V	V	V	V	V	V	V	V	V	V	
	DAC/AMP	ESS® SABRE901802C DAC	ESS® SABRE901802C DAC	ESS® SABRE901802C DAC	Savitech SV3H712 AMP	Savitech SV3H712 AMP	Savitech SV3H712 AMP	Savitech SV3H712 AMP	Internal AMP	—	—	—	
	Audio Cover	V	V	V	V	V	V	V	V	V	V	V	
	LED illuminated audio jacks	V	V	—	—	—	—	V	—	—	—	—	
	Japanese Capacitors	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 Two-Way AI Noise Cancellation ROG CLAVIS Type-C USB DAC bundled	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation ROG CLAVIS Type-C USB DAC bundled	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III +, Sonic Studio Virtual Mixer Sonic Radar III, DTS® Sound Unbound Two-Way AI Noise Cancellation	DTSX™ Ultra Two-Way AI Noise Cancellation	—	—	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation	
Cooling	Onboard Fan headers	6/6/Onboard	8/8/Onboard	8	7	7	7	7	5	5	6	6	
	Heatsinked M.2	5	5	4	4	4	3	2	2 (Flexible)	1 (Flexible)	—	3	
AI Overclocking	V	V	V	V	V	V	V	V	V	V	V	V	
AI Cooling	V	V	V	V	V	V	V	V	V	V	V	V	
AI Networking (GameFirst VI)	V	V	V	V	V	V	V	V	V	V	V	V	
Two-way AI Noise-Cancellation	V	V	V	V	V	V	V	V	V	V	V	V	
Aura Sync	V	V	V	V	V	V	V	V	V	V	V	V	
RGB Header	3*ARGB, 1*RGB/Onboard 6*ARGB@ROG Fan Controller bundled	3*ARGB, 1*RGB/Onboard 6*ARGB@ROG Fan Controller bundled	3*ARGB, 1*RGB	3*ARGB, 1*RGB	3*ARGB, 1*RGB	3*ARGB, 1*RGB	1*ARGB, 1*RGB	3*ARGB, 1*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	2*ARGB, 2*RGB	
CPU Power Connector	8-pin + 8-pin	8-pin + 8-pin	8-pin + 8-pin	4-pin + 8-pin	4-pin + 8-pin	4-pin + 8-pin	8-pin	4-pin + 8-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	8-pin + 4-pin	
ProCool connector with solid pins	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool II	ProCool	ProCool (8-pin)	ProCool (8-pin)	ProCool	ProCool	
COM	—	—	—	—	—	—	—	—	—	—	1	1	
SP1 / TPM	—	—	1*SP1-TPM header (14-1 pin)	1*SP1-TPM header (14-1 pin)	1*SP1-TPM header (14-1 pin)	1*SP1-TPM header (14-1 pin)	—	1*SP1-TPM header (14-1 pin)	1*SP1-TPM header (14-1 pin)	1*SP1-TPM header (14-1 pin)	—	—	

*Specifications may vary, depending on CPU. Listed specifications are based on 11th Gen Intel® Core™ desktop processors. For more details, please refer to the specifications on each product page.

All specifications are subject to change without prior notice • Feb, 2021





ASUS H570 & B560 Motherboards

		H570				B560												
Series		Prime		TUF Gaming		ROG			Prime			TUF Gaming						
Model		PRIME H570-PLUS	PRIME H570M-PLUS	TUF GAMING H570-PRO WIFI	TUF GAMING H570-PRO	ROG STRIX B560-E GAMING WIFI	ROG STRIX B560-F GAMING WIFI	ROG STRIX B560-A GAMING WIFI	ROG STRIX B560-I GAMING WIFI	ROG STRIX B560-G GAMING WIFI	PRIME B560-PLUS	PRIME B560M-A	PRIME B560M-K	TUF GAMING B560-PLUS WIFI	TUF GAMING B560M-PLUS WIFI	TUF GAMING B560M-PLUS		
Photo						coming soon												
CPU Socket		LGA1200																
Chipset		H570									B560							
Form factor		ATX	mATX	ATX	ATX	ATX	ATX	ATX	Mini-ITX	mATX	ATX	mATX	mATX	ATX	mATX	mATX		
Integrated power stages / DrMOS		—	—	V	V	V	V	V	V	V	—	—	—	V	V	V		
Teamed Power Architecture		8	8	8+1	8+1	14+2	8+2	8+2	6+2	8+2	8	8	8	8+1	8+1	8+1		
Pre-mounted I/O shield		—	—	V	V	V	V	V	V	V	—	V	—	V	V	V		
Memory		# Slots, Maximum capacity	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	2 x DIMM, Max. 64GB	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		
		Speed (MHz)*	4600(O/C)	4600(O/C)	5000(O/C)	5000(O/C)	5000(O/C)	5000(O/C)	5333(O/C)	5000(O/C)	4600(O/C)	5000(O/C)	5000(O/C)	5000(O/C)	5000(O/C)	5000(O/C)		
		OptiMem	OptiMem	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem II	OptiMem	—	—	OptiMem II	OptiMem II	OptiMem II		
Graphics output		DP1.4/HDMI2.0	DP1.4/HDMI2.0/D-Sub	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0 / D-Sub	DP1.4/HDMI 2.0	HDMI 2.0 / D-Sub	DP1.4/HDMI2.0	DP1.4/HDMI2.0	DP1.4/HDMI2.0		
Multi-GPU support		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Expansion slots		PCIe 4.0 x 16	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)	1 x PCIe 4.0/3.0 x16 SafeSlot Core+ (8x16)		
		PCIe 3.0 x 16	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	—	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	—	—	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)	1 x PCIe 3.0 x16 (max. 8x4)		
		PCIe 3.0 x 4	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		PCIe x1	3	1	3	3	2	2	3	2	2	1	2	3	1	1		
		PCIe	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Thunderbolt 4 support		1*header	1*header	1*header	1*header	1*header	1*header	1*header	1*header	1*header	1*header	—	—	1*header	1*header	1*header		
SATA 6Gbps		6	6	6	6	6	6	6	4	6	6	6	6	6	6	6		
M.2		1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4)	1 x 2280 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 2280 (PCIe 3.0 x4)	1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 2210 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 2280 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 22110 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 22110 (PCIe 4.0 x4) 1 x 22110 (PCIe 3.0 x4 & SATA) 1 x 22110 (PCIe 3.0 x4)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)	1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 4.0 x4) 1 x 2280 (PCIe 3.0 x4 & SATA)		
Storage & Connectivity		Front panel Type-C™ connector	—	—	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 1	1 x USB 3.2 Gen 2	1 x USB 3.2 Gen 2	—	—	—	1 x USB3.2 Gen 1	1 x USB3.2 Gen 1	1 x USB3.2 Gen 1		
		USB4	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		USB 3.2 Gen 2x2	3(2A0B+1C0B)	2(1A0B+1C0B)	2(2A0B)	2(2A0B)	2(2A0B)	2(2A0B)	2(1A0B, 1C0B)	2(1A0B, 1C0B)	2(2A0B)	2(1A1C0B)	—	2(2A0B)	2(2A0B)	2(2A0B)		
		USB 3.2 Gen 1	4 (40F)	6 (20B, 40F)	3 (10B, 20F)	3 (10B, 20F)	3 (10B, 20F)	5(1C2A0F, 2A0B)	5(1C2A0F, 2A0B)	2(20F)	3 (20F, 1C0B)	4(40F)	6 (4A0B, 2A0F)	6(2A1C0B, 2A1C0F)	6(2A1C0B, 2A1C0F)	6(2A1C0B, 2A1C0F)		
		USB 2.0	8 (40B, 40F)	6 (20B, 40F)	8 (40B, 40F)	8 (40B, 40F)	8 (40B, 40F)	9 (4+1 audio type C0B, 40F)	9 (4+1 audio type C0B, 40F)	8(50B+20F-1 audio type C0B)	11(6A0B, 40F, 1 audio type C0B)	7(30F, 40B)	6 (2A0B, 4A0F)	7(30B, 40F)	8(40B, 40F)	8(40B, 40F)		
Wireless		1 x M.2 Socket (Key E)	1 x M.2 Socket (Key E)	Intel® Wi-Fi 6	—	Intel® Wi-Fi 6E AX210	Intel® Wi-Fi 6	Intel® Wi-Fi 6	Intel® Wi-Fi 6	Intel® Wi-Fi 6	1 x M.2 Socket (Key E)	1 x M.2 Socket (Key E)	—	Intel® Wi-Fi 6	Intel® Wi-Fi 6			
Networking		Ethernet	1 x Intel® I219-V 1Gb	1 x Intel® I219-V 1Gb	1 x Realtek 2.5Gb	1 x Realtek 2.5Gb	Intel I225-V 2.5 G	Intel I225-V 2.5 G	Realtek 2.5Gb	Realtek 2.5Gb	Intel® I219V	Intel® I219V	Intel® I219V	1 x Realtek 2.5Gb	1 x Realtek 2.5Gb	1 x Realtek 2.5Gb		
		LANGuard	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
		Audio codec	Realtek ALC897	Realtek ALC897	Realtek ALC1200A	Realtek ALC1200A	ALC4080	SupremeFX S1220A	SupremeFX S1220A	SupremeFX S1220A	Realtek ALC897	Realtek ALC897	Realtek ALC897	Realtek ALC897	Realtek ALC897	Realtek ALC897		
		Impedance sense	—	—	—	—	V	V	V	V	—	—	—	—	—	—		
		DAC/AMP	—	—	—	—	Savitech SV3H712 AMP	Savitech SV3H712 AMP	Savitech SV3H712 AMP	Savitech SV3H712 AMP	—	—	—	—	—	—		
		Audio cover	—	V	V	V	V	V	V	V	—	—	—	—	—	—		
		LED illuminated audio jacks	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
		Japanese capacitors	V	V	V	V	V	V	V	V	V	V	V	V	V	V		
		Audio effects	—	—	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation	Sonic Studio III - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio III - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio II - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	Sonic Studio II - Sonic Studio Virtual Mixer Sonic Radar III DTS® Sound Unbound Two-Way AI Noise Cancellation	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation	DTS® Custom for Gaming headsets Two-Way AI Noise Cancellation		
Cooling		Onboard Fan headers	5	5	6	6	6	6	3	4	4	4	2	6	4	4		
		Heatsinked M.2	1(Flexible)	—	3	3	3	3	2	1	1(Flexible)	1(Flexible)	—	1(Flexible)	1(Flexible)	1(Flexible)		
AI Overclocking		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
AI Cooling		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
AI Networking (GameFirst VI)		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Two-way AI Noise-Cancellation		—	—	V	V	V	V	V	V	V	—	—	—	V	V	V		
Aura Sync		V	V	V	V	V	V	V	V	V	V	V	—	V	V	V		
RGB Header		2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	1 x ARGB, 1 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	1 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB	2 x ARGB, 2 x RGB		
CPU Power Connector		8-pin	8-pin + 4-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin	8-pin		
ProCool connector with solid pins		—	—	ProCool	ProCool	8 pin (ProCool)	8 pin (ProCool)	8 pin (ProCool)	8 pin (ProCool)	8 pin (ProCool)	—	—	—	ProCool	8 pin (ProCool)	8 pin (ProCool)		
COM		1*header	1*header	1*header	1*header	—	—	—	—	—	1*COM port	—	—	1*header	1*header	1*header		
SPI / TPM		1*SPI-TPM header (14-1 pin)	1*SPI-TPM header (14-1 pin)	—	—	1 x SPI TPM header (14-1pin)	1 x SPI TPM header (14-1pin)	1 x SPI TPM header (14-1pin)	—	1 x SPI TPM header (14-1pin)	1 x SPI TPM header (14-1pin)	1 x SPI TPM header (14-1pin)	1 x SPI TPM header (14-1pin)	—	—	—		

*Specifications may vary, depending on CPU. Listed specifications are based on 11th Gen Intel® Core™ desktop processors. For more details, please refer to the specifications on each product page.

All specifications are subject to change without prior notice • Feb, 2021

