

**B550AM Gaming**

Platform	<ul style="list-style-type: none"> <li>- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm</li> <li>- Solid Capacitor design</li> <li>- 2oz Copper PCB</li> </ul>																																																																																																																					
Unique Feature	<p><b>ASRock USB 3.2 Gen2</b></p> <ul style="list-style-type: none"> <li>- ASRock USB 3.2 Gen2 Type-A Port (10 Gb/s)</li> <li>- ASRock USB 3.2 Gen2 Type-C Port (10 Gb/s)</li> </ul> <p><b>ASRock Super Alloy</b></p> <ul style="list-style-type: none"> <li>- XXL Aluminum Alloy Heatsink</li> <li>- Premium 50A Power Choke</li> <li>- Sapphire Black PCB</li> <li>- High Density Glass Fabric PCB</li> <li>- 2oz Copper PCB</li> </ul> <p><b>Intel® 802.11ac WiFi</b></p> <p><b>ASRock Steel Slot Gen4</b></p> <p><b>ASRock Full Coverage M.2 Heatsink (Optional)</b></p> <p><b>ASRock Hyper M.2 (PCIe Gen4x4)</b></p> <p><b>ASRock POST Status Checker (PSC)</b></p> <p><b>ASRock Full Spike Protection (for all USB, Audio, LAN Ports)</b></p> <p><b>ASRock Live Update &amp; APP Shop</b></p>																																																																																																																					
CPU	<ul style="list-style-type: none"> <li>- Supports AMD AM4 socket Ryzen™ 2000 and 3000 series processors</li> <li>- Digi Power design</li> <li>- 10 Power Phase design</li> </ul>																																																																																																																					
Chipset	- AMD Promontory B550A																																																																																																																					
Memory	<ul style="list-style-type: none"> <li>- Dual Channel DDR4 Memory Technology</li> <li>- 4 x DDR4 DIMM Slots</li> <li>- AMD Ryzen series CPUs (Matisse) support DDR4 3200/2933/2667/2400/2133 ECC &amp; non-ECC, un-buffered memory*</li> <li>- AMD Ryzen series CPUs (Pinnacle Ridge) support DDR4 3533+(OC)/3200(OC)/2933(OC)/2667/2400/2133 ECC &amp; non-ECC, un-buffered memory*</li> <li>- AMD Ryzen series CPUs (Picasso) support DDR4 2933/2667/2400/2133 non-ECC, un-buffered memory*</li> <li>- AMD Ryzen series CPUs (Summit Ridge) support DDR4 3466+(OC)/3200(OC)/2933(OC)/2667/2400/2133 ECC &amp; non-ECC, un-buffered memory*</li> <li>- AMD Ryzen series CPUs (Raven Ridge) support DDR4 3466+(OC)/3200(OC)/2933/2667/2400/2133 non-ECC, un-buffered memory*</li> </ul> <p>* For Ryzen Series CPUs (Picasso and Raven Ridge), ECC is only supported with PRO CPUs.</p> <p>* Please refer to Memory Support List on ASRock's website for more information. (<a href="http://www.asrock.com/">http://www.asrock.com/</a>)</p> <ul style="list-style-type: none"> <li>- Max. capacity of system memory: 64GB</li> <li>- 15 μ Gold Contact in DIMM Slots</li> </ul> <p>* Please refer to below table for AMD non-XMP memory frequency support. For more details, please refer to the QVL on ASRock's website.</p> <p><b>Ryzen Series CPUs (Matisse):</b></p> <table border="1"> <thead> <tr> <th colspan="4">UDIMM Memory Slot</th> <th>Frequency (Mhz)</th> </tr> <tr> <th>A1</th> <th>A2</th> <th>B1</th> <th>B2</th> <th></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>SR</td> <td>-</td> <td>-</td> <td>3200</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> <td>-</td> <td>3200</td> </tr> <tr> <td>-</td> <td>SR</td> <td>-</td> <td>SR</td> <td>3200</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> <td>DR</td> <td>3200</td> </tr> <tr> <td>SR</td> <td>SR</td> <td>SR</td> <td>SR</td> <td>2933</td> </tr> <tr> <td>SR/DR</td> <td>DR</td> <td>SR/DR</td> <td>DR</td> <td>2667</td> </tr> <tr> <td>SR/DR</td> <td>SR/DR</td> <td>SR/DR</td> <td>SR/DR</td> <td>2667</td> </tr> </tbody> </table> <p><b>Ryzen Series CPUs (Pinnacle Ridge):</b></p> <table border="1"> <thead> <tr> <th colspan="4">UDIMM Memory Slot</th> <th>Frequency (Mhz)</th> </tr> <tr> <th>A1</th> <th>A2</th> <th>B1</th> <th>B2</th> <th></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>SR</td> <td>-</td> <td>-</td> <td>2933</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> <td>-</td> <td>2933</td> </tr> <tr> <td>-</td> <td>SR</td> <td>-</td> <td>SR</td> <td>2933</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> <td>DR</td> <td>2933</td> </tr> <tr> <td>SR</td> <td>SR</td> <td>SR</td> <td>SR</td> <td>2933</td> </tr> <tr> <td>SR/DR</td> <td>DR</td> <td>SR/DR</td> <td>DR</td> <td>2667</td> </tr> <tr> <td>SR/DR</td> <td>SR/DR</td> <td>SR/DR</td> <td>SR/DR</td> <td>2133-2400</td> </tr> </tbody> </table> <p><b>Ryzen Series CPUs (Picasso):</b></p> <table border="1"> <thead> <tr> <th colspan="3">UDIMM Memory Slot</th> </tr> <tr> <th>A1</th> <th>A2</th> <th>B1</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>SR</td> <td>-</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> </tr> <tr> <td>-</td> <td>SR</td> <td>-</td> </tr> <tr> <td>-</td> <td>DR</td> <td>-</td> </tr> <tr> <td>SR</td> <td>SR</td> <td>SR</td> </tr> <tr> <td>SR/DR</td> <td>DR</td> <td>SR/DR</td> </tr> <tr> <td>SR/DR</td> <td>SR/DR</td> <td>SR/DR</td> </tr> </tbody> </table> <p>SR: Single rank DIMM, 1Rx4 or 1Rx8 on DIMM module label DR: Dual rank DIMM, 2Rx4 or 2Rx8 on DIMM module label</p>	UDIMM Memory Slot				Frequency (Mhz)	A1	A2	B1	B2		-	SR	-	-	3200	-	DR	-	-	3200	-	SR	-	SR	3200	-	DR	-	DR	3200	SR	SR	SR	SR	2933	SR/DR	DR	SR/DR	DR	2667	SR/DR	SR/DR	SR/DR	SR/DR	2667	UDIMM Memory Slot				Frequency (Mhz)	A1	A2	B1	B2		-	SR	-	-	2933	-	DR	-	-	2933	-	SR	-	SR	2933	-	DR	-	DR	2933	SR	SR	SR	SR	2933	SR/DR	DR	SR/DR	DR	2667	SR/DR	SR/DR	SR/DR	SR/DR	2133-2400	UDIMM Memory Slot			A1	A2	B1	-	SR	-	-	DR	-	-	SR	-	-	DR	-	SR	SR	SR	SR/DR	DR	SR/DR	SR/DR	SR/DR	SR/DR
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Expansion Slot	<p><b>AMD Ryzen series CPUs (Matisse, Summit Ridge and Pinnacle Ridge)</b></p> <ul style="list-style-type: none"> <li>- 1 x PCI Express 4.0 x16 Slot (PCIe1: x16 mode)*</li> <li>- 1 x PCI Express 3.0 x16 Slot (PCIe2: x4 mode)</li> </ul> <p><b>AMD Ryzen series CPUs (Picasso, Raven Ridge)</b></p> <ul style="list-style-type: none"> <li>- 1 x PCI Express 3.0 x16 Slot (PCIe1: x8 mode)*</li> <li>- 1 x PCI Express 3.0 x16 Slot (PCIe2: x4 mode)</li> </ul> <p><b>AMD Athlon series CPUs</b></p> <ul style="list-style-type: none"> <li>- 1 x PCI Express 3.0 x16 Slot (PCIe1: x4 mode)*</li> <li>- 1 x PCI Express 3.0 x16 Slot (PCIe2: x4 mode)</li> </ul> <p>* Supports NVMe SSD as boot disks</p> <ul style="list-style-type: none"> <li>- Supports AMD Quad CrossFireX™ and CrossFireX™</li> <li>- 1 x M.2 Socket (Key E) with the bundled WiFi-802.11 ac module</li> <li>- 15 μ Gold Contact in VGA PCIe Slot (PCIe1)</li> </ul>																																																																																																																					
Graphics	<ul style="list-style-type: none"> <li>- <b>Integrated AMD Radeon™ Vega Series Graphics in Ryzen Series APU*</b></li> <li>* Actual support may vary by CPU</li> <li>- DirectX 12, Pixel Shader 5.0</li> <li>- Shared memory default 2GB. Max Shared memory supports up to 16GB.</li> <li>* The Max shared memory 16GB requires 32GB system memory installed.</li> <li>- Supports HDMI 2.0 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz</li> <li>- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 2.0 Ports (Compliant HDMI monitor is required)</li> <li>- Supports HDR (High Dynamic Range) with HDMI 2.0</li> <li>- Supports HDCP 2.2 with HDMI 2.0 Port</li> <li>- Supports 4K Ultra HD (UHD) playback with HDMI 2.0 Port</li> <li>- Supports Microsoft PlayReady®</li> <li>- 7.1 CH HD Audio with Content Protection (Realtek ALC1200 Audio Codec)</li> </ul>																																																																																																																					
Audio	<ul style="list-style-type: none"> <li>- Premium Blu-ray Audio support</li> <li>- ELNA Audio Caps</li> <li>- PCB Isolate Shielding</li> <li>- Individual PCB Layers for R/L Audio Channel</li> </ul>																																																																																																																					
LAN	<ul style="list-style-type: none"> <li>- Gigabit LAN 10/100/1000 Mb/s</li> <li>- Giga PHY Intel® I211AT</li> <li>- Supports Wake-On-LAN</li> <li>- Supports Lightning/ESD Protection</li> <li>- Supports Energy Efficient Ethernet 802.3az</li> <li>- Supports PXE</li> </ul>																																																																																																																					
Wireless LAN	<ul style="list-style-type: none"> <li>- Intel® 802.11ac WiFi Module</li> <li>- Supports IEEE 802.11a/b/g/n/ac</li> <li>- Supports Dual-Band (2.4/5 GHz)</li> <li>- Supports high speed wireless connections up to 433Mbps</li> <li>- Supports Bluetooth 4.2 / 3.0 + High speed class II</li> </ul>																																																																																																																					
Rear Panel I/O	<ul style="list-style-type: none"> <li>- 2 x Antenna Ports</li> <li>- 1 x PS/2 Mouse Port</li> <li>- 1 x PS/2 Keyboard Port</li> <li>- 1 x HDMI Port</li> </ul>																																																																																																																					

	<ul style="list-style-type: none"> <li>- 1 x USB 3.2 Gen2 Type-A Port (10 Gb/s) (ReDriver) (Supports ESD Protection)</li> <li>- 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s) (ReDriver) (Supports ESD Protection)</li> <li>- 4 x USB 3.2 Gen1 Ports (Supports ESD Protection)</li> <li>- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)</li> <li>- HD Audio Jacks: Line in / Front Speaker / Microphone</li> </ul>
Storage	<ul style="list-style-type: none"> <li>- 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug</li> <li>- 1 x Hyper M.2 Socket (M2_1), supports M Key type 2230/2242/2260/2280/22110 M.2 PCI Express module up to Gen4x4 (64 Gb/s) (with Matisse) or Gen3x4 (32 Gb/s) (with Pinnacle Ridge and Picasso)*</li> <li>* Supports NVMe SSD as boot disks</li> <li>* Supports ASRock U.2 Kit</li> </ul>
Connector	<ul style="list-style-type: none"> <li>- 1 x COM Port Header</li> <li>- 1 x SPI TPM Header</li> <li>- 1 x Power LED and Speaker Header</li> <li>- 2 x RGB LED Headers</li> <li>* Supports in total up to 12V/3A, 36W LED Strip</li> <li>- 1 x Addressable LED Header</li> <li>* Supports in total up to 5V/3A, 15W LED Strip</li> <li>- 1 x CPU Fan Connector (4-pin)</li> <li>* The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.</li> <li>- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)</li> <li>* The CPU/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.</li> <li>- 1 x Chassis/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)</li> <li>* The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.</li> <li>- 1 x 24 pin ATX Power Connector</li> <li>- 1 x 8 pin 12V Power Connector</li> <li>- 1 x Front Panel Audio Connector</li> <li>- 1 x AMD LED Fan USB Header</li> <li>- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection)</li> <li>- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) (Supports ESD Protection)</li> </ul>
BIOS Feature	<ul style="list-style-type: none"> <li>- 128Mb AMI UEFI Legal BIOS with GUI support</li> <li>- Supports "Plug and Play"</li> <li>- ACPI 5.1 compliance wake up events</li> <li>- Supports jumperfree</li> <li>- SMBIOS 2.3 support</li> <li>- CPU VCORE, CPU VDDCR, SOC, DRAM, VPPM, PREM VDD CLDO, PERM VDDCR, SOC, +1.8V, VDDP Voltage Multi-adjustment</li> </ul>
Support CD	<ul style="list-style-type: none"> <li>- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar</li> </ul>
Hardware Monitor	<ul style="list-style-type: none"> <li>- Temperature Sensing: CPU, CPU/Water Pump, Chassis/Water Pump Fans</li> <li>- Fan Tachometer: CPU, CPU/Water Pump, Chassis/Water Pump Fans</li> <li>- Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, CPU/Water Pump, Chassis/Water Pump Fans</li> <li>- Fan Multi-Speed Control: CPU, CPU/Water Pump, Chassis/Water Pump Fans</li> <li>- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore, CPU VDDCR, SOC, DRAM, PREM VDDCR, SOC, +1.8V, VDDP</li> </ul>
OS	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 10 64-bit</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>- FCC, CE</li> <li>- ErP/EuP ready (ErP/EuP ready power supply is required)</li> </ul>
Accessories	<ul style="list-style-type: none"> <li>- Quick Installation Guide, Support CD, I/O Shield</li> <li>- 2 x SATA Data Cables</li> <li>- 2 x ASRock WiFi 2.4/5 GHz Antennas</li> <li>- 1 x Screw for M.2 Socket</li> </ul>

B2	Frequency (Mhz)	UDIMM Memory Slot				Frequency (Mhz)	UDIMM Memory Slot				Frequency (Mhz)
		A1	A2	B1	B2		A1	A2	B1	B2	
-	2933	-	SR	-	-	2667	-	SR	-	-	2933
-	2667	-	DR	-	-	2667	-	DR	-	-	2667
SR	2667	-	SR	-	SR	2667	-	SR	-	SR	2667
DR	2400	-	DR	-	DR	2667	-	DR	-	DR	2667
SR	2133	SR	SR	SR	SR	2667	SR	SR	SR	SR	2667
DR	1866	SR/DR	DR	SR/DR	DR	2667	SR/DR	DR	SR/DR	DR	2667
SR/DR	1866	SR/DR	SR/DR	SR/DR	SR/DR	2133-2400	SR/DR	SR/DR	SR/DR	SR/DR	2133-2400