

Unique Feature	<p>ASRock USB 3.2 Gen2</p> <ul style="list-style-type: none"> - ASRock Front Panel Type-C USB 3.2 Gen2 Header (10 Gb/s) - ASRock USB 3.2 Gen2x2 Type-C Port (20 Gb/s) - ASRock USB 3.2 Gen2 Type-A Port (10 Gb/s) <p>ASRock Super Alloy</p> <ul style="list-style-type: none"> - Premium 60A Power Choke - 50A Dr.MOS - Nichicon 12K Black Caps (100% Japan made high quality conductive polymer capacitors) - Sapphire Black PCB - High Density Glass Fabric PCB - 8 Layer PCB <p>2.5G LAN</p> <p>Intel® 802.11ax Wi-Fi 6E</p> <p>ASRock Steel Slot</p> <p>ASRock Full Coverage M.2 Heatsink</p> <p>ASRock Hyper M.2 (PCIe Gen4x4)</p> <p>ASRock Full Spike Protection (for all USB, Audio, LAN Ports)</p> <p>ASRock Live Update & APP Shop</p>
CPU	<ul style="list-style-type: none"> - Supports 10th Gen Intel® Core™ Processors and 11th Gen Intel® Core™ Processors (LGA1200) - Digi Power design - 8 Power Phase design - Supports Intel® Turbo Boost Max 3.0 Technology - Supports Intel® K-Series unlocked CPUs
Chipset	<ul style="list-style-type: none"> - Intel® Z590
Memory	<ul style="list-style-type: none"> - Dual Channel DDR4 Memory Technology - 2 x DDR4 DIMM Slots - 11th Gen Intel® Core™ Processors support DDR4 non-ECC, un-buffered memory up to 5066+(OC)* - 10th Gen Intel® Core™ Processors support DDR4 non-ECC, un-buffered memory up to 4600+(OC)* - Supports ECC UDIMM memory modules (operate in non-ECC mode) - Max. capacity of system memory: 64GB** - Supports Intel® Extreme Memory Profile (XMP) 2.0 <p>*11th Gen Intel® Core™ (i9/i7/i5) support DDR4 up to 3200; Core™ (i3), Pentium® and Celeron® support DDR4 up to 2666 native 10th Gen Intel® Core™ (i9/i7) support DDR4 up to 2933; Core™ (i5/i3), Pentium® and Celeron® support DDR4 up to 2666 natively</p> <p>**Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under OS. For Windows® 64-bit OS with 64-bit CPU, there is no such limitation.</p>
BIOS	<ul style="list-style-type: none"> - 128Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 6.0 Compliant wake up events - SMBIOS 2.7 Support - CPU, CPU GT, VCCSA, DRAM, VPPM, VCCIN AUX, VCCIO, VCCST Voltage Multi-adjustment
Graphics	<ul style="list-style-type: none"> - 11th Gen Intel® Core™ Processors support Intel® Xe Graphics Architecture (Gen 12). 10th Gen Intel® Core™ support Gen 9 Graphics - Dual graphics output: support HDMI and DisplayPort 1.4 ports by independent display controllers - Supports HDMI 2.0 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz

	<ul style="list-style-type: none"> - Supports DisplayPort 1.4 with max. resolution up to 4K x 2K (4096x2304) @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 2.0 Port (Con monitor is required) - Supports HDCP 2.3 with HDMI 2.0 and DisplayPort 1.4 Ports <p>*Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. 11th Gen Intel® Core™ Processors support HDMI 2.0. 10th Gen Intel® Core™ Processors support HDMI 1.4.</p>
Audio	<ul style="list-style-type: none"> - 7.1 CH HD Audio (Realtek ALC897 Audio Codec) - Supports Surge Protection - Nahimic Audio
LAN	<p>1 x 2.5 Gigabit LAN 10/100/1000/2500 Mb/s (Dragon RTL8125BG)</p> <ul style="list-style-type: none"> - Supports Dragon 2.5G LAN Software - Smart Auto Adjust Bandwidth Control - Visual User Friendly UI - Visual Network Usage Statistics - Optimized Default Setting for Game, Browser, and Streaming Modes - User Customized Priority Control - Supports Wake-On-LAN - Supports Lightning/ESD Protection - Supports Energy Efficient Ethernet 802.3az - Supports PXE 1 x Gigabit LAN 10/100/1000 Mb/s (Intel® I219V) - Supports Wake-On-LAN - Supports Lightning/ESD Protection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Wireless LAN	<ul style="list-style-type: none"> - Intel® 802.11ax Wi-Fi 6E Module - Supports IEEE 802.11a/b/g/n/ax - Supports Dual-Band 2x2 160MHz with extended 6GHz band support* - 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth 5.2 + High speed class II - Supports MU-MIMO <p>*Wi-Fi 6E (6GHz band) is not currently enabled by default due to the different regulation status of each country. It will be activated (I countries) through Windows® Update and software update once available. The update is expected to be in the middle of 2021.</p>
Slots	<p>11th Gen Intel® Core™ Processors</p> <ul style="list-style-type: none"> - 1 x PCI Express 4.0 x16 Slot* <p>10th Gen Intel® Core™ Processors</p> <ul style="list-style-type: none"> - 1 x PCI Express 3.0 x16 Slot* <p>- 1 x Vertical M.2 Socket (Key E) with the bundled WiFi-802.11ax PCIe WiFi module (on the rear I/O)</p> <p>*Supports PCIe riser cards to extend one x16 slot to two x8 slots Supports NVMe SSD as boot disks</p>
Storage	<ul style="list-style-type: none"> - 4 x SATA3 6.0 Gb/s Connectors - 1 x Hyper M.2 Socket (M2_1), supports M Key type 2280 M.2 PCI Express module up to Gen4x4 (64 Gb/s) (S works with 11th Gen Intel® Core™ processors only)* - 1 x Ultra M.2 Socket (M2_2), supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express m

	<p>Gen3 x4 (32 Gb/s)*</p> <p>*Supports Intel® Optane™ Technology Supports NVMe SSD as boot disks Supports ASRock U.2 Kit</p>
RAID	<ul style="list-style-type: none"> - Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices - Supports RAID 0 and RAID 1 for M.2 NVMe storage devices* <p>*RAID function for PCIe mode SSD in M2_1 is only available with Intel® SSD installed.</p>
Connector	<ul style="list-style-type: none"> - 1 x RGB LED Header* - 1 x Addressable LED Header** - 1 x CPU Fan Connector (4-pin)*** - 1 x Chassis Fan Connector (4-pin)**** - 1 x Chassis/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)***** - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector (Hi-Density Power Connector) - 1 x Front Panel Audio Connector - 1 x USB 2.0 Header (Supports 2 USB 2.0 ports) (Supports ESD Protection) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) (Supports ESD Protection) - 1 x Front Panel Type C USB 3.2 Gen2 Header (Supports ESD Protection) <p>*Support in total up to 12V/3A, 36W LED Strip</p> <p>**Support in total up to 5V/3A, 15W LED Strip</p> <p>***The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.</p> <p>****The Chassis Fan Connector supports the chassis fan of maximum 1A (12W) fan power.</p> <p>*****The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power. CHA_FAN1/WP can auto detect if 3-pin or 4-pin fan is in use.</p>
Rear Panel I/O	<ul style="list-style-type: none"> - 2 x Antenna Ports - 1 x HDMI Port - 1 x DisplayPort 1.4 - 1 x USB 3.2 Gen2x2 Type-C Port (20 Gb/s) (Supports ESD Protection) - 4 x USB 3.2 Gen2 Type-A Ports (10 Gb/s) (Supports ESD Protection) - 1 x USB 2.0 Port (Supports ESD Protection) - 2 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Line in / Front Speaker / Microphone
Software and UEFI	<p>Software</p> <ul style="list-style-type: none"> - ASRock Motherboard Utility (A-Tuning) - ASRock Dragon 2.5G LAN Software - ASRock Polychrome SYNC* <p>UEFI</p> <ul style="list-style-type: none"> - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Easy RAID Installer <p>*These utilities can be downloaded from ASRock Live Update & APP Shop.</p>
Support CD	<ul style="list-style-type: none"> - Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar

Accessories	<ul style="list-style-type: none"> - Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables - 2 x ASRock WiFi 2.4/5/6 GHz Antennas - 2 x Screws for M.2 Sockets
Hardware Monitor	<ul style="list-style-type: none"> - Fan Tachometer: CPU, Chassis, Chassis/Water Pump Fans - Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, Chassis, Chassis/Water Pump Fans - Fan Multi-Speed Control: CPU, Chassis, Chassis/Water Pump Fans - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
Form Factor	<ul style="list-style-type: none"> - Mini-ITX Form Factor: 6.7-in x 6.7-in, 17.0 cm x 17.0 cm - 8 Layer PCB
OS	<ul style="list-style-type: none"> - Microsoft® Windows® 10 64-bit
Certifications	<ul style="list-style-type: none"> - FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)

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