

Specifications

CPU	<ul style="list-style-type: none"> • Supports AMD Ryzen™ 7000 series Desktop Processors* • Processor socket AM5 <p>* Please go to www.msi.com to get the newest support status as new processors are released.</p>
Chipset	AMD B650 Chipset
Memory	<ul style="list-style-type: none"> • 4x DDR5 memory slots, supporting up to 192GB* • Supports 1R 4800 MHz by JEDEC • Max. overclocking frequency: <ul style="list-style-type: none"> • 1DPC 1R Max. speed up to 6000+ MHz • 1DPC 2R Max. speed up to 6000+ MHz • 2DPC 1R Max. speed up to 6000+ MHz • 2DPC 2R Max. speed up to 6000+ MHz • Supports Dual-Channel mode • Supports non-ECC, un-buffered memory • Supports AMD EXPO <p>* Please refer to www.msi.com for more information on compatible memory.</p>
Expansion Slots	<ul style="list-style-type: none"> • 2x PCIe x16 slots <ul style="list-style-type: none"> • Supports x16/x2 • PCI_E1 slot (From CPU) <ul style="list-style-type: none"> • Supports up to PCIe 4.0 x16 • PCI_E2* (From B650 chipset) <ul style="list-style-type: none"> • Supports up to PCIe 4.0 x2 • 1x PCIe x1 slot <ul style="list-style-type: none"> • PCI_E3 slot (From B650 chipset) <ul style="list-style-type: none"> • Supports up to PCIe 3.0 x1 <p>* PCI_E2 & M2_3 share the bandwidth. PCI_E2 will run at x2 speed and M2_3 will run at x2 speed when installing devices in both slots.</p>
Onboard Graphics	<ul style="list-style-type: none"> • 1x HDMI™ 2.1 port with HDR, supports a maximum resolution of 4K 60Hz*/ ** • 1x DisplayPort 1.4 port with HBR3, supports a maximum resolution of 8K 60Hz*/ ** <p>*Available only on processors featuring integrated graphics. ** Graphics specifications may vary depending on the CPU installed.</p>

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SATA Ports	<ul style="list-style-type: none"> • 6x SATA 6Gb/s ports (From B650 chipset) • SATA_1_2/ SATA_3_4 (From B650 chipset) • SATA_A1_A2 (From ASM1061)
M.2 SSD Slots	<ul style="list-style-type: none"> • 3x M.2 slots (Key M) • M2_1 & M2_2 slot (From CPU) <ul style="list-style-type: none"> • Supports up to PCIe 4.0 x4 • M2_1 supports 2280/ 22110 storage devices • M2_2 supports 2260/ 2280 storage devices • M2_3 slot (From B650 chipset) <ul style="list-style-type: none"> • Supports up to PCIe 4.0 x4* • Supports 2260/ 2280 storage devices <p>* M2_3 & PCI_E2 share the bandwidth. M2_3 will run at x2 speed and PCI_E2 will run at x2 speed when installing devices in both slots.</p>
RAID	<ul style="list-style-type: none"> • Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices* • Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices <p>*SATA_A1 & SATA_A2 do not support RAID function.</p>
Audio	<p>Realtek® ALC4080 Codec</p> <ul style="list-style-type: none"> • 7.1-Channel USB High Performance Audio • Supports up to 32-bit/384kHz playback on front panel • Supports S/PDIF output
LAN	<p>1x Realtek 8125BG 2.5Gbps LAN controller</p>
Wireless LAN & Bluetooth®	<p>AMD® Wi-Fi 6E RZ616</p> <ul style="list-style-type: none"> • The Wireless module is pre-installed in the M.2 (Key-E) slot • Supports MU-MIMO TX/RX • Supports 20MHz, 40MHz, 80MHz, 160MHz bandwidth in 2.4GHz/ 5GHz or 6GHz bands* • Supports 802.11 a/ b/ g/ n/ ac/ ax • Supports Bluetooth® 5.2** <p>* Wi-Fi 6E 6GHz may depend on every country's regulations and will be ready in Windows 10 21H1 and Windows 11.</p> <p>** Bluetooth 5.2 will be ready in Windows 10 21H1 and Windows 11.</p>

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Power Connectors	<ul style="list-style-type: none">• 1x 24-pin ATX main power connector• 2x 8-pin EPS 12V power connectors
Internal USB Connectors	<p>AMD® B650 Chipset</p> <ul style="list-style-type: none">• 1x USB 3.2 Gen 2 10Gbps Type-C connector• 1x USB 3.2 Gen 1 5Gbps connector<ul style="list-style-type: none">• Supports additional 2 USB 3.2 Gen 1 5Gbps ports• 2x USB 2.0 connectors<ul style="list-style-type: none">• Supports additional 4 USB 2.0 ports
Fan Connectors	<ul style="list-style-type: none">• 1x 4-pin CPU fan connector• 1x 4-pin water-pump fan connector• 6x 4-pin System fan connectors
System Connectors	<ul style="list-style-type: none">• 1x Front panel audio connector• 2x System panel connectors• 1x Chassis Intrusion connector• 1x TPM module connector• 1x Tuning Controller connector
Jumpers	<ul style="list-style-type: none">• 1x Clear CMOS jumper
LED Features	<ul style="list-style-type: none">• 2x 4-pin RGB LED connector• 2x 3-pin ARGB_V2 LED connectors• 4x EZ Debug LED

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Back Panel Connectors	<ul style="list-style-type: none">• 1x Flash BIOS button• 1x DisplayPort• 1x HDMI™ port• 3x USB 3.2 Gen 2 10Gbps Type-A ports (From CPU)• 1x USB 3.2 Gen 2x2 20Gbps Type-C port (From B650 chipset)• 4x USB 3.2 Gen 1 5Gbps Type-A ports (From B650 chipset)• 2x USB 2.0 Type-A ports (From B650 chipset)• 1x LAN (RJ45) jack• 2x Wi-Fi Antenna connectors• 5x audio jacks• 1x Optical S/PDIF Out connector
I/O Controller	NUVOTON NCT6687D-R Controller Chip
Hardware Monitor	<ul style="list-style-type: none">• CPU/ System/ Chipset temperature detection• CPU/ System/ Pump fan speed detection• CPU/ System/ Pump fan speed control
Form Factor	<ul style="list-style-type: none">• ATX Form Factor• 12 in. x 9.6 in. (304 mm x 243 mm)
BIOS Features	<ul style="list-style-type: none">• 1x 256 Mb flash• UEFI AMI BIOS• ACPI 6.4, SMBIOS 3.4• Multi-language
Software	<ul style="list-style-type: none">• Drivers• MSI Center• MSI APP Player (BlueStacks)• CPU-Z MSI GAMING• Norton 360 Deluxe• AIDA64 Extreme - MSI Edition

Overview of Components

