ASUS ROG STRIX Z690-G GAMING WIFI Intel Z690 LGA 1700 micro ATX

Brand : ASUS Product code: 90MB19G0-M0EAY0

Product name: ROG STRIX Z690-G GAMING WIFI

Intel® Z690 LGA 1700 ATX motherboard with PCle® 5.0, 14+1 DrMos, DDR5 memory support, Two-Way Al Noise Cancelation, Al Overclocking, Al Cooling, Al Networking, WiFi 6E (802.11ax), Intel® 2.5 Gb Ethernet, three M.2 slots with heatsinks, PCle® 4.0 NVMe® SSD support, M.2 backplates, USB 3.2 Gen 2x2 Type-C®, SATA and AURA Sync RGB lighting





| Processor manufacturer* Intel® (GA 1700 country) USB 3.2 Gen 2x7 Type-C ports quantity 1 Processor socket * (GA 1700 country) LSB 3.2 Gen 2x7 Type-C ports quantity 1 Compatible processor series* Intel® Celeron®, Intel® Core* ii 7, Inte | | | | |
|--|----------------------------------|---------------|------------------------------|------------------------|
| Processor socket* LGA 1700 quantity 1 Compatible processor series* Intel® Core™ 15, Intel® Core™ 17, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19, Intel® Core™ 17, Intel® Core™ 19, Intel® Core™ 19 | Processor | | Rear panel I/O ports | |
| Intel® Celeron®, Intel® Core 13, Intel® Core 14, Intel® Core | | Intel | , · · · | 1 |
| Intel® Core* State | Processor socket * | LGA 1700 | ' ' | 1 |
| Memory LDMI version 2.1 Supported memory types* DDRS-SDRAM DisplayPort version 1.4 Number of memory slots* 4 Headphone outputs 1 Memory slots type DIMM Microphone in ✓ Memory channels Dual-channel S/PDIF out port ✓ Non-ECC ✓ Wetwork Version Supported memory clock speeds 4800,5000,5200,5400,5600,5800,600 Metwork Version Maximum internal memory 128 GB Ethernet LAN ✓ Memory deprive memory 128 GB Ethernet LAN ✓ Maximum internal memory 128 GB Ethernet LAN ✓ Maximum internal memory 128 GB Ethernet LAN ✓ Storage controllers Version Mi-Fi standard ✓ Storage controllers M.2. STATA 802.11a, 802.11b, 802.11g, Wi-Fi standards 802.11a, 802.11g | Compatible processor series * | | | = |
| Memory DisplayPorts quantity 1 Supported memory types* DDRS-SDRAM DisplayPort version 1.4 Number of memory slots* 4 Headphone outputs 1 Memory slots type DIMM Microphone in ✓ Memory channels Dual-channel S/PDIF out port ✓ Non-ECC ✓ Network Etheret LAN ✓ Supported memory clock speeds 4800,5000,5200,5400,5600,5800,600 Ethernet LAN ✓ Maximum internal memory 128 GB Ethernet LAN ✓ Maximum internal memory √ Wi-Fi Ethernet LAN ✓ Unbuffered memory √ Wi-Fi Ethernet LAN ✓ Storage controllers Top Wi-Fi standard Wi-Fi 6E (802.11ax) 802.11a, 802.11b, 802.11b, Wi-Fi 5 (802.11ax) Storage controllers M.2, SATA Bluetooth ✓ S02.11a, 802.11b, 802.11a, Wi-Fi 5 (802.11ax) Supported storage drive types M.2, SATA Bluetooth ✓ VRAID support square ✓ RAID supported storage drive interfaces * M.2, SATA <td>Compatible processor series *</td> <td></td> <td>1 1 7</td> <td>=</td> | Compatible processor series * | | 1 1 7 | = |
| Supported memory types* DDR5-SDRAM DisplayPort version 1.4 Number of memory slots* 4 Headphone outputs 1 Memory Slots type DIMM Microphone in ✓ Memory channels Dual-channel S/PDIF out port ✓ Non-ECC V Non-ECC Non-ECC V Supported memory clock speeds M800,5000,5200,5400,5600,5800,6000 Ethernet interface type 2.5 Gigabit Ethernet Maximum internal memory* 128 GB Ethernet interface type 2.5 Gigabit Ethernet Unbufered memory 128 GB Ethernet interface type 2.5 Gigabit Ethernet Storage controllers Top Wi-Fi standard Wi-Fi 6E (802.11ax) Supported storage drive types HDD & SSD Wi-Fi standards 802.11a, 802.11b, 802.11a, Wi-Fi 6E (802.11ax) Supported storage drive interfaces* M.2, SATA Bluetooth ✓ RAID support ✓ Bluetooth ✓ Parallel processing technology Not supported Motherboard chipset * Intel Z690 Supported Audio output channels* Component for* | Mamany | | | |
| Number of memory yights No Number of memory yights Number of memory yights Number of memory yights Number of memory yights Number of SATA III connectors Not Sata Air connectors Not Sat | • | DDDE CDDAM | , , , , | = |
| Memory slots type DIMM Microphone in ✓ Memory channels Dual-channel 5/PDIF out port ✓ Non-ECC ✓ Network ✓ Supported memory clock speeds 4800,5000,5200,5400,5600,5800,600 Network ✓ Supported memory clock speeds 4800,5000,5200,5400,5600,5800,600 Ethernet LAN ✓ Maximum internal memory 128 GB Ethernet LAN ✓ Maximum internal memory ✓ Wi-Fi ether tuAN ✓ Storage controllers Top Wi-Fi standard Wi-Fi 6E (802.11ax) Supported storage drive types HDD & SSD Wi-Fi standards (802.11a, 802.11b, 802.11g, Wi-Fi 6E (802.11ax) Supported storage drive interfaces* M.2, SATA Bluetooth ✓ Supported storage drive interfaces* M.2, SATA Bluetooth ✓ Supported storage drive interfaces* M.2, SATA Bluetooth ✓ Supported storage drive interfaces* M.2, SATA Intel 2600 Supported storage drive interfaces* M.2, SATA Intel 2600 Supported storage drive interfaces* M. | | | | = |
| Memory channels Dual-channel S/PDIF out port ✓ Non-ECC ✓ Network Supported memory clock speeds 4800,5000,5200,5400,5600,5800,600 Ethernet LAN ✓ Maximum internal memory 128 GB Ethernet interface type 2.5 Gigabit Ethernet Unbuffered memory ✓ Wi-Fi ** ✓ Storage controllers Supported storage drive types HDD & SSD Wi-Fi standards (802.11n,) Wi-Fi 5 (802.11ax) Supported storage drive interfaces ** M.2, SATA Bluetooth ✓ RAID support * Bluetooth ✓ RAID levels 0, 1, 5, 10 Bluetooth ✓ Graphics Features Features Parallel processing technology Not supported Motherboard chipset * Intel Z690 Number Journal I/O Audio output channels * 7.1 channels USB 3.2 Gen 1 (3.1 Gen 1) 1 Motherboard chipset * micro ATX USB 3.2 Gen 2 (3.1 Gen 2) 1 Windows operating systems supported Windows 10, Windows 11 | • | | • | |
| Non-ECC Supported memory clock speeds | | = | • | |
| Supported memory clock speeds MHz Ethernet LAN Ethernet LAN Ethernet LAN | • | | | • |
| Supported memory clock speeds MHz Ethernet LAN Ethernet LAN Waximum internal memory* 128 GB Ethernet interface type Unbuffered memory 128 GB Ethernet interface type Ui-Fi * Yi-Fi * Y | | · · | | |
| Unbuffered memory | Supported memory clock speeds | | Ethernet LAN | · |
| Storage controllers Storage controllers Supported storage drive types HDD & SSD Wi-Fi standard Wi-Fi 6E (802.11ax) 802.11a, 802.11b, 802.11g, Wi-Fi 6E (802.11ax) 802.11a, 802.11b, 802.11g, Wi-Fi 6E (802.11ax) Wi-Fi standards Wi-Fi standards 802.11a, 802.11b, 802.11g, Wi-Fi 6E (802.11ax) Wi-Fi standards Wi-Fi 6E (802.11ax) Wi-Fi 6E | Maximum internal memory * | 128 GB | • • | • |
| Supported storage drive types HDD & SSD Wi-Fi standards 802.11a, 802.11b, 802.11b, 802.11g, Wi-Fi Supported storage drive types RAID supported storage drive interfaces* RAID support RAID su | Unbuffered memory | ✓ | | • |
| Supported storage drive types MDD & SSD Wi-Fi standards (802.11n), Wi-Fi 5 (802.11ac), Wi-Supported storage drive interfaces * M.2, SATA RAID support RAID levels 0, 1, 5, 10 Bluetooth Seatures Features Parallel processing technology support * Mot supported Audio chip Audio chip Realtek ALC4080 Realtek ALC40 | Storage controllers | | Top Wi-Fi standard | , , |
| Supported storage drive interfaces* M.2, SATA RAID support RAID levels O, 1, 5, 10 Bluetooth version Features Parallel processing technology support* Parallel processing technology supported Not supported Motherboard chipset * Audio chip Realtek ALC4080 Internal I/O USB 2.0 connectors * Component for * Com | Supported storage drive types | HDD & SSD | Wi-Fi standards | |
| RAID support RAID levels 0, 1, 5, 10 Bluetooth version 5.2 Graphics Features Parallel processing technology support* Parallel processing technology support* Not supported Audio chip Audio chip Realtek ALC4080 Internal I/O USB 2.0 connectors* 2 USB 3.2 Gen 1 (3.1 Gen 1) connectors * USB 3.2 Gen 2 (3.1 Gen 2) connectors * USB 3.4 Gen 2 (3.1 Gen 2) connectors * Front panel audio connector ATX ATX POL Expansion slots Front panel audio connector ATX AVA AVA AVA POL Expansion slots Front panel audio connector ATX POWEr fan connector ATX POWEr fan connector ATX POWEr fan connector ATX POWEr fan connector ATX Number of Chassis fan connector AVA POL Express x1 (Gen 3.x) slots 1 POL Express x16 (Gen 4.x) slots 1 Number of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Molocy) power Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 (Gen 4.x) slots 1 Rounder of Chassis fan connector AVA POL Express x16 | | * M.2, SATA | Willistandards | |
| Features Parallel processing technology support * Not supported Motherboard chipset * Intel Z690 Internal I/O Audio chip Realtek ALC4080 USB 2.0 connectors * 2 Audio output channels * 7.1 channels USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 Motherboard form factor * micro ATX USB 3.2 Gen 2 (3.1 Gen 2) connectors * 1 Windows operating systems supported Windows 10, Windows 11 Vumber of SATA III connectors * 6 Expansion slots Front panel audio connector ✓ PCI Express x1 (Gen 3.x) slots and the properties of Gen 4.x) slots and the properties of Gen 4.x slots and the properties of Mumber of M.2 (M) slots and the properties of Mumber of M.2 (M) slots and the properties of Gen 4.x slots a | RAID support | ✓ | Bluetooth | ✓ |
| Parallel processing technology support * Mot supported Audio chipset * Intel Z690 Internal I/O Audio output channels * 7.1 channels USB 2.0 connectors * 2 USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 Component for * PC Motherboard chipset family * Intel USB 3.2 Gen 2 (3.1 Gen 2) connectors * 2 Number of SATA III connectors * 6 Front panel audio connector | RAID levels | 0, 1, 5, 10 | Bluetooth version | 5.2 |
| Not supportedAudio chipRealtek ALC4080Internal I/OAudio output channels *7.1 channelsUSB 2.0 connectors *2Component for *PCUSB 3.2 Gen 1 (3.1 Gen 1) connectors *1Motherboard form factor *micro ATXUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Windows operating systems supportedWindows 10, Windows 11Number of SATA III connectors *6Expansion slotsFront panel audio connector✓PCI Express x1 (Gen 3.x) slots PCI Express x16 (Gen 4.x) slots Number of M.2 (M) slots1POU fan connector✓Number of M.2 (M) slots3CPU fan connector✓BIOSNumber of (Nolex) power connectors (4-pin)BIOS type *UEFI AMI EBIOS memory size | Graphics | | Features | |
| Not supportedAudio chipRealtek ALC4080Internal I/OAudio output channels*7.1 channelsUSB 2.0 connectors*2Component for *PCUSB 3.2 Gen 1 (3.1 Gen 1) connectors*1Motherboard form factor *micro ATXUSB 3.2 Gen 2 (3.1 Gen 2) connectors *1Windows operating systems supportedWindows 10, Windows 11Number of SATA III connectors *6Expansion slotsFront panel audio connector✓PCI Express x1 (Gen 3.x) slots PCI Express x16 (Gen 4.x) slots Number of M.2 (M) slots1POWEr fan connector✓Number of M.2 (M) slots3CPU fan connector✓BIOSNumber of (Molex) power connectors (4-pin)BIOS type *UEFI AMI BIOS memory size | Parallel processing technology | Notes and del | Motherboard chipset * | Intel Z690 |
| USB 2.0 connectors * 2 USB 3.2 Gen 1 (3.1 Gen 1) connectors * 1 USB 3.2 Gen 2 (3.1 Gen 2) connectors * 1 USB 3.2 Gen 2 (3.1 Gen 2) connectors * 6 Vindows operating systems supported Number of SATA III connectors * 6 Front panel audio connector | | Not supported | Audio chip | Realtek ALC4080 |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * Intel Motherboard form factor * Intel Motherboard chipset family * Intel USB 3.2 Gen 2 (3.1 Gen 2) connectors * Intel Windows operating systems supported Windows 10, Windows 11 windows 11 windows 11 windows 12 windows 13 windows 14 windows 15 windows 16 windows 16 windows 16 windows 17 windows 18 windows 19 windows 10 windows 11 windows 19 windows 10 windows 11 windows 10 windows 19 windows 10 windows 19 windows 10 windows 11 windows 10 windows 10 windows 11 windows 10 windows 10 windows 10 windows 11 windows 10 windows 10 windows 11 windows 10 windows 10 windows 10 windows 11 windows 10 wind | Internal I/O | | Audio output channels * | 7.1 channels |
| USB 3.2 Gen 1 (3.1 Gen 1) connectors * USB 3.2 Gen 2 (3.1 Gen 2) connectors * Number of SATA III connectors Front panel audio connector ATX Power connector (24-pin) Power fan connector CPU fan connector Number of chassis fan connectors Power for chassis fan connectors Power for chassis fan connectors Power for chassis fan connectors BIOS BIOS Motherboard form factor * Micro ATX Motherboard chipset family * Intel Mindows 10, Windows 11 Windows 10, Windows 11 Power fan connector PCI Express x1 (Gen 3.x) slots 1 PCI Express x16 (Gen 4.x) slots 1 Number of M.2 (M) slots BIOS BIOS UEFI AMI BIOS memory size 256 Mbit | USB 2.0 connectors * | 2 | Component for * | PC |
| connectors * Intel USB 3.2 Gen 2 (3.1 Gen 2) connectors * Intel Windows operating systems supported Number of SATA III connectors * 6 Front panel audio connector ATX Power connector (24-pin) Power fan connector CPU fan connector Number of chassis fan connectors POI Express x1 (Gen 3.x) slots POI Express x16 (Gen 4.x) slots POI fan connector Number of chassis fan connector BIOS BIOS Windows 10, Windows 11 POI Express x1 (Gen 3.x) slots POI Express x16 (Gen 4.x) | | | Motherboard form factor * | micro ATX |
| Number of SATA III connectors * 6 Number of SATA III connectors * 6 Front panel audio connector | , , | 1 | Motherboard chipset family * | Intel |
| Front panel audio connector ATX Power connector (24-pin) POI Express x1 (Gen 3.x) slots POI Express x16 (Gen 4.x) slots POI Express x16 (Gen 4.x) slots Number of M.2 (M) slots Power fan connector Number of chassis fan connectors Peripheral (Molex) power connectors Peripheral (Molex) power connectors Peripheral (Molex) power connectors BIOS BIOS type * UEFI AMI BIOS memory size 256 Mbit | | 1 | , , | Windows 10, Windows 11 |
| Front panel audio connector ATX Power connector (24-pin) POI Express x1 (Gen 3.x) slots POI Express x1 (Gen 3.x) slots POI Express x1 (Gen 3.x) slots POI Express x1 (Gen 4.x) slots Number of M.2 (M) slots BIOS Peripheral (Molex) power connectors (4-pin) POI Express x1 (Gen 3.x) slots 1 Number of M.2 (M) slots BIOS BIOS BIOS BIOS type * BIOS memory size DEFI AMI BIOS memory size | Number of SATA III connectors * | 6 | Expansion slots | |
| ATX Power connector (24-pin) Power fan connector CPU fan connector Number of chassis fan connectors PCI Express x16 (Gen 4.x) slots Number of M.2 (M) slots BIOS BIOS BIOS BIOS type * UEFI AMI BIOS memory size 256 Mbit | Front panel audio connector | ✓ | • | 1 |
| Power fan connector CPU fan connector Number of chassis fan connectors Peripheral (Molex) power connectors (4-pin) Number of chassis fan connectors BIOS BIOS BIOS type * UEFI AMI BIOS memory size 256 Mbit | ATX Power connector (24-pin) | ✓ | • | |
| CPU fan connector Number of chassis fan connectors Peripheral (Molex) power connectors (4-pin) RIOS BIOS BIOS BIOS UEFI AMI BIOS memory size 256 Mbit | Power fan connector | ✓ | • | |
| Peripheral (Molex) power connectors (4-pin) BIOS type * UEFI AMI BIOS memory size 256 Mbit | | ✓ | ` ' | |
| connectors (4-pin) BIOS memory size 256 Mbit | Number of chassis fan connectors | 3 | | |
| EPS power connector (8-pin) ✓ | | 1 | · · | |
| | EPS power connector (8-pin) | ✓ | | |

| ernal I/O | | Logistics data | |
|---|----------|-----------------------------|--|
| PM connector | ✓ | Harmonized System (HS) code | 84733020 |
| hunderbolt headers | 1 | Weight & dimensions | |
| 12V power connector | √ | Width | 244 mm |
| GB LED pin header | * | Depth | 244 mm |
| Rear panel I/O ports | | Packaging content | |
| USB 2.0 ports quantity * | 2 | Cables included | SATA |
| JSB 3.2 Gen 1 (3.1 Gen 1) Type-A corts quantity * | 4 | Drivers included | ✓ |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * | 2 | Other features | |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * | 1 | Weight Packaging content | 1.2 kg 4 x SATA 6Gb/s cables 1 x ASUS N Fi moving antennas 1 x Cable ties pack 1 x M.2 Rubber Package 1 x M.2 Q-Latch package 1 x M.2 Q- Latch package for M.2 backplate ROG key chain 1 x ROG Strix stickers 1 x ROG Strix thank you card 1 x Support DVD 1 x User manual |



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