



GIGABYTE Z690 UD DDR4 Z690 Motherboard User Manual

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GIGABYTE Z690 UD DDR4 Z690 Motherboard



Brand: Gigabyte
Product code: Z690 UD DDR4
Product name : Z690 UD DDR4 (rev. 1.0)

INSTRUCTION

- Supports 12th Gen Intel® Core™ Series Processors
 - Dual Channel Non-ECC Unbuffered DDR4, 4 DIMMs
 - Direct 16+1+2 Digital VRM Design with 60A Power Stage* and Tantalum Polymer Capacitor
 - Ultra Performance VRM Heatsinks
 - Fast 2.5 GbE LAN with Bandwidth Management
 - 3 x Ultra-Fast NVMe PCIe 4.0 x4 M.2 with Enlarged Thermal Guard
 - SuperSpeed USB 3.2 Gen 2x2 TYPE-C® delivers up to 20Gb/s transfer speeds
 - RGB FUSION 2.0 supports Addressable LED & RGB LED Strips
 - Smart Fan 6 Features Multiple Temperature Sensors , Hybrid Fan Headers with FAN STOP
 - Q-Flash Plus Update BIOS without Installing the CPU, Memory and Graphics Card
- LGA 1700, Intel Z690 Chipset, 4 x DDR4-SDRAM up to 128GB, LAN, 1 x RJ-45, 6 x SATA III, UEFI AMI, ATX

SPECIFICATION

Processor

- **Processor manufacturer** * Intel
- **Processor socket** * LGA 1700
- **Compatible processor series** * Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9

Memory

- **Supported memory types** * DDR4-SDRAM
- **Number of memory slots** * 4
- **Memory slots type** DIMM
- **Memory channels** Dual-channel
- **ECC** ✓
- **Non-ECC** ✓
- **Supported memory clock speeds**
2133,2400,2666,2800,2933,3200,3300,3333,3400,3466,3600,3666,3733,3800,3866,4000,4133,4266,4300,4400,4500,4600,4700,4800,4900,5000,5100,5200,5300,5400,5500,5600,5700,5800,5900,6000,6100,6200,6300,6400,6500,6600,6700,6800,6900,7000,7100,7200,7300,7400,7500,7600,7700,7800,7900,8000,8100,8200,8300,8400,8500,8600,8700,8800,8900,9000,9100,9200,9300,9400,9500,9600,9700,9800,9900,10000,10100,10200,10300,10400,10500,10600,10700,10800,10900,11000,11100,11200,11300,11400,11500,11600,11700,11800,11900,12000,12100,12200,12300,12400,12500,12600,12700,12800,12900,13000,13100,13200,13300,13400,13500,13600,13700,13800,13900,14000,14100,14200,14300,14400,14500,14600,14700,14800,14900,15000,15100,15200,15300,15400,15500,15600,15700,15800,15900,16000,16100,16200,16300,16400,16500,16600,16700,16800,16900,17000,17100,17200,17300,17400,17500,17600,17700,17800,17900,18000,18100,18200,18300,18400,18500,18600,18700,18800,18900,19000,19100,19200,19300,19400,19500,19600,19700,19800,19900,20000,20100,20200,20300,20400,20500,20600,20700,20800,20900,21000,21100,21200,21300,21400,21500,21600,21700,21800,21900,22000,22100,22200,22300,22400,22500,22600,22700,22800,22900,23000,23100,23200,23300,23400,23500,23600,23700,23800,23900,24000,24100,24200,24300,24400,24500,24600,24700,24800,24900,25000,25100,25200,25300,25400,25500,25600,25700,25800,25900,26000,26100,26200,26300,26400,26500,26600,26700,26800,26900,27000,27100,27200,27300,27400,27500,27600,27700,27800,27900,28000,28100,28200,28300,28400,28500,28600,28700,28800,28900,29000,29100,29200,29300,29400,29500,29600,29700,29800,29900,30000,30100,30200,30300,30400,30500,30600,30700,30800,30900,31000,31100,31200,31300,31400,31500,31600,31700,31800,31900,32000,32100,32200,32300,32400,32500,32600,32700,32800,32900,33000,33100,33200,33300,33400,33500,33600,33700,33800,33900,34000,34100,34200,34300,34400,34500,34600,34700,34800,34900,35000,35100,35200,35300,35400,35500,35600,35700,35800,35900,36000,36100,36200,36300,36400,36500,36600,36700,36800,36900,37000,37100,37200,37300,37400,37500,37600,37700,37800,37900,38000,38100,38200,38300,38400,38500,38600,38700,38800,38900,39000,39100,39200,39300,39400,39500,39600,39700,39800,39900,40000,40100,40200,40300,40400,40500,40600,40700,40800,40900,41000,41100,41200,41300,41400,41500,41600,41700,41800,41900,42000,42100,42200,42300,42400,42500,42600,42700,42800,42900,43000,43100,43200,43300,43400,43500,43600,43700,43800,43900,44000,44100,44200,44300,44400,44500,44600,44700,44800,44900,45000,45100,45200,45300,45400,45500,45600,45700,45800,45900,46000,46100,46200,46300,46400,46500,46600,46700,46800,46900,47000,47100,47200,47300,47400,47500,47600,47700,47800,47900,48000,48100,48200,48300,48400,48500,48600,48700,48800,48900,49000,49100,49200,49300,49400,49500,49600,49700,49800,49900,50000,50100,50200,50300,50400,50500,50600,50700,50800,50900,51000,51100,51200,51300,51400,51500,51600,51700,51800,51900,52000,52100,52200,52300,52400,52500,52600,52700,52800,52900,53000,53100,53200,53300,53400,53500,53600,53700,53800,53900,54000,54100,54200,54300,54400,54500,54600,54700,54800,54900,55000,55100,55200,55300,55400,55500,55600,55700,55800,55900,56000,56100,56200,56300,56400,56500,56600,56700,56800,56900,57000,57100,57200,57300,57400,57500,57600,57700,57800,57900,58000,58100,58200,58300,58400,58500,58600,58700,58800,58900,59000,59100,59200,59300,59400,59500,59600,59700,59800,59900,60000,60100,60200,60300,60400,60500,60600,60700,60800,60900,61000,61100,61200,61300,61400,61500,61600,61700,61800,61900,62000,62100,62200,62300,62400,62500,62600,62700,62800,62900,63000,63100,63200,63300,63400,63500,63600,63700,63800,63900,64000,64100,64200,64300,64400,64500,64600,64700,64800,64900,65000,65100,65200,65300,65400,65500,65600,65700,65800,65900,66000,66100,66200,66300,66400,66500,66600,66700,66800,66900,67000,67100,67200,67300,67400,67500,67600,67700,67800,67900,68000,68100,68200,68300,68400,68500,68600,68700,68800,68900,69000,69100,69200,69300,69400,69500,69600,69700,69800,69900,7

Storage controllers

- **Supported storage drive types** HDD & SSD
- **Supported storage drive interfaces** * M.2, SATA III
- **RAID levels** 0, 1, 5, 10

Graphics

- Parallel processing technology support * 2-Way CrossFireX, Quad-GPU
- CrossFireX
- HDCP ✓

Internal I/O

- 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
- Number of SATA III connectors * 6
- Front panel audio connector ✓
- Front panel connector ✓
- ATX Power connector (24-pin) ✓
- CPU fan connector ✓
- Peripheral (Molex) power connectors (4-pin) 1
- EPS power connector (8-pin) ✓
- Thunderbolt headers 2
- RGB LED pin header ✓

Rear panel I/O ports

- **USB 2.0 ports quantity** * 4
- **USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity** * 4
- **USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity** * 1
- **USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity** * 1
- **Ethernet LAN (RJ-45) ports** * 1
- **HDMI ports quantity** * 1
- **S/PDIF out port** ✓
- **Thunderbolt ports quantity** 2

Network

- **Ethernet LAN** ✓
- **Ethernet interface type** 2.5 Gigabit Ethernet
- **Wi-Fi** * ✗

Features

- **Motherboard chipset** * Intel Z690
- **Audio output channels** * 7.1 channels
- **PC health monitoring** Fan, Temperature, Voltage
- **Component for** * PC
- **Motherboard form factor** * ATX
- **Motherboard chipset family** * Intel
- **Windows operating systems supported** Windows 10 x64
- **Harmonized System (HS) code** 84733020

Expansion slots

- **PCI Express x16 slots** 1

BIOS

- **BIOS type** * UEFI AMI
- **BIOS memory size** 256 Mbit
- **ACPI version** 5.0
- **Clear CMOS jumper** ✓

BIOS

- **Desktop Management Interface (DMI) version** 2.7
- **System Management BIOS (SMBIOS) version** 2.7

Weight & dimensions

- **Width** 305 mm
- **Depth** 244 mm
- **Height** 70 mm


Other features

- **Weight** 1 kg

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