

Gigabyte Z690I AORUS ULTRA (rev. 1.0) Intel Z690 LGA 1700 mini ITX

Brand : Gigabyte

Product code: Z690I AORUS ULTRA

Product name : Z690I AORUS ULTRA (rev. 1.0)

- Supports 12th Gen Intel® Core™ Series Processors
 - Dual Channel Non-ECC Unbuffered DDR5, 2 DIMMs
 - DDR5 MEMORY Design with SMD DIMM and Shielded Memory Routing
 - Intel® Optane™ Memory Ready
 - Direct 10+2+1 Phases Digital VRM Solution with 105A Power Stage*
 - Advanced Thermal Design with Fins- Array II, Thermal Guard III and Heatpipe
 - Blazing Fast Intel® 2.5GbE LAN with cFosSpeed
 - Intel® WiFi6 802.11ax 2T2R & BT5 with AORUS Antenna
 - AMP-UP Audio with ALC4080 and WIMA for Rear 120dB SNRHDMI 2.0 supports Premium 4K
 - Dual Ultra-Fast NVMe PCIe 4.0* x4 M.2 with Thermal Guard
 - RGB FUSION 2.0 with Multi-Zone Addressable LED Light Show Design, Support Addressable LED & RGB LED Strip
 - Smart Fan 6 Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP and Noise Detection
 - Q-Flash Plus Update BIOS without Installing the CPU, Memory and Graphics Card
- Intel Z690 Express, LGA 1700, 2 x DDR5 DIMM, 64 GB max, Intel 2.5GbE LAN, Intel Wi-Fi 6 AX201, Bluetooth 5.2, 2 x SATA 6Gb/s, AMI UEFI BIOS



Processor		Rear panel I/O ports	
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor socket *	LGA 1700	HDMI version	2.1
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3,	DisplayPorts quantity	1
	Intel® Core™ i5, Intel® Core™ i7,	DisplayPort version	1.4
	Intel® Core™ i9, Intel® Pentium® Gold	Headphone outputs	1
		Microphone in	✓
		USB connector type	USB Type-A, USB Type-C
Memory		Network	
Supported memory types *	DDR5-SDRAM	Ethernet LAN	✓
Number of memory slots *	2	Ethernet interface type	2.5 Gigabit Ethernet
Memory slots type	DIMM	Wi-Fi *	✓
Memory channels	Dual-channel	Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Non-ECC	✓	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200 MHz	WLAN controller model	Intel Wi-Fi 6 AX201
Maximum internal memory *	64 GB	Bluetooth	✓
Unbuffered memory	✓	Bluetooth version	5.2
Storage controllers		Features	
Supported storage drive types	HDD & SSD	Motherboard chipset *	Intel Z690
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III	Audio chip	Realtek ALC4080
RAID support	✓	Audio output channels *	2.0 channels
RAID levels	0, 1	PC health monitoring	CPU, Fan, Temperature, Voltage
Graphics		Component for *	PC
HDCP	✓	Motherboard form factor *	mini ITX
Internal I/O		Motherboard chipset family *	Intel
USB 2.0 connectors *	1	Power source type	ATX
USB 3.2 Gen 1 (3.1 Gen 1) connectors *	1	Windows operating systems supported	Windows 10 x64, Windows 11 x64
USB 3.2 Gen 2 (3.1 Gen 2) connectors *	1	Harmonized System (HS) code	84733020
Number of SATA III connectors *	2	Expansion slots	
Front panel audio connector	✓	PCI Express x16 (Gen 5.x) slots	1
Front panel connector	✓		
ATX Power connector (24-pin)	✓		

Internal I/O		Expansion slots	
Power fan connector	✓	Number of M.2 (M) slots	2
CPU fan connector	✓	BIOS	
EPS power connector (8-pin)	✓	BIOS type *	UEFI AMI
RGB LED pin header	✓	BIOS memory size	256 Mbit
Rear panel I/O ports		ACPI version	5.0
USB 2.0 ports quantity *	2	Clear CMOS jumper	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Desktop Management Interface (DMI) version	2.7
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3	System Management BIOS (SMBIOS) version	2.7
USB 3.2 Gen 2x2 Type-C ports quantity	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports *	1	Width	170 mm
		Depth	170 mm
		Height	70 mm
		Other features	
		Weight	1 kg



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