GIGABYTE

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

Processor manufacturer *	Intel
Processor socket *	LGA 1700
Compatible processor series *	Intel® Celeron®, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium® Gold

Memory

Supported memory types *	DDR5-SDRAM
Number of memory slots *	2
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	Non-ECC
Supported memory clock speeds	4000,4800,5200,5400,5600,5800,6000,6200 MHz
Maximum internal memory *	64 GB
Unbuffered memory	✓

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces *	M.2, PCI Express 4.0, SATA III
RAID support	✓
RAID levels	0, 1

Graphics

HDCP	✓

Internal I/O

USB 2.0 connectors *	1
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 *	2
Front panel audio connector	✓
Front panel connector	✓
ATX Power connector (24-pin)	✓

Rear panel I/O ports

HDMI version	2.1
DisplayPorts quantity	1
DisplayPort version	1.4
Headphone outputs	1
Microphone in	✓
USB connector type	USB Type-A, USB Type-C

Network

Ethernet LAN	✓
Ethernet interface type	2.5 Gigabit Ethernet
Wi-Fi *	✓
Top Wi-Fi standard	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
WLAN controller model	Intel Wi-Fi 6 AX201
Bluetooth	✓
Bluetooth version	5.2

Features

Motherboard chipset *	Intel Z690
Audio chip	Realtek ALC4080
Audio output channels *	2.0 channels
PC health monitoring	CPU, Fan, Temperature, Voltage
Component for *	PC
Motherboard form factor *	mini ITX
Motherboard chipset family *	Intel
Power source type	ATX
Windows operating systems supported	Windows 10 x64, Windows 11 x64

Expansion slots

PCI Express x16 (Gen 5.x) slots	1
Number of M.2 (M) slots	2

Internal I/O

Power fan connector	✔
CPU fan connector	✔
EPS power connector (8-pin)	✔
RGB LED pin header	✔

Rear panel I/O ports

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
USB 3.2 Gen 2x2 Type-C ports quantity	1
Ethernet LAN (RJ-45) ports *	1
HDMI ports quantity *	1

BIOS

BIOS type *	UEFI AMI
BIOS memory size	256 Mbit
ACPI version	5.0
Clear CMOS jumper	✔
Desktop Management Interface (DMI) version	2.7
System Management BIOS (SMBIOS) version	2.7

Logistics data

Harmonized System (HS) code	84733020

Weight & dimensions

Width	170 mm
Depth	170 mm
Height	70 mm

Other features

Weight	1 kg

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