

Motherboard N7 Z690 NZXT

N7 Z690 Intel Z690 ATX Gaming

N7 Z690

Intel® Z690 ATX Gaming
Motherboard

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Overview

La NZXT N7 Z690 es una tarjeta madre en formato ATX basada en el chipset Intel Z690, compatible con procesadores Intel Core de 12 generación a través del socket LGA 1700. Esta diseñada para soportar memoria DDR4 en configuración dual channel, con capacidad máxima de hasta 128gb y compatibilidad con perfiles Intel XMP para overclocking de memoria.

General

Form Factor	ATX
Chipset	Intel® Z690
Socket Type	Intel® LGA 1700
CPU Support	• Intel® 14th Generation CPUs * • Intel® 13th Generation CPUs * • Intel® 12th Generation CPUs See CPU Support List for more details. * Intel® 13th & 14th Generation support may require an additional BIOS update prior to installation.
DIMM Slots	4
Wireless Support	WiFi 6E, Bluetooth 5.2
Operating System	Windows® 10 64-bit or newer
Multi-GPU Support	AMD Quad CrossFireX™ and CrossFireX™ * <i>* Only supported on PCIe Gen 4 x1 Slots</i>
Additional Features	• Intel® Hybrid Technology • Intel® Turbo Boost Max 3.0 Technology
Warranty	3 Years

Memory

DIMM Type	DDR4 288-pin
Max Memory Capacity	128 GB
Memory Architecture	Dual Channel
Base Frequency Support	• 2933 MHz • 2800 MHz • 2666 MHz • 2400 MHz • 2133 MHz
Max Memory Speed	• 5000+ MHz (Overclock) * Please refer to Memory QVL for more details. <i>* Supports DDR4 3200 MHz natively</i>
Memory Supported	• Non-ECC un-buffered memory • Supports ECC UDIMM Memory (operates in non-ECC mode)
Intel® XMP 2.0 Support	Yes
Integrated Graphics	
Graphics Controller	• Intel® Xe Graphics
Integrated Graphics Output	• HDMI™ 2.1 TMDS Compatible
Maximum Resolution	• 4096 x 2160 @ 60Hz
Additional Features	• HDCP 2.3 Compatible

Expansion Slots	
PCIe x16 (x16 Mode) Slots	1
PCIe x16 (x4 Mode) Slots	2
PCIe x1 Slots	2
PCIe Type	• PCIEX16_1 * ○ PCIe Gen 5 x16 • PCIEX16_2 * ○ PCIe Gen 4 x4 • PCIEX16_3 * ○ PCIe 3.0 x4 • PCIEX1_1, PCIEX1_2 ○ PCIe Gen 4 x1 <i>* Supports NVMe SSD as boot disks</i>
Storage Support	
M.2 Type 2242/2260/2280 Slots (M-Key)	2 (M2_1, M2_3)
M2 Type 2242/2260/2280/22110 Slots (M-Key)	1 (M2_2)
M.2 Type	• M2_1, M2_2 ○ PCIe Gen 4 x4 * • M2_3 ○ PCIe Gen 4 x4 * or SATA

	<i>* Supports Intel® Volume Management Device, Intel® Optane Technology, & NVMe SSD as boot disks</i>
SATA 6Gb/s Ports	4
RAID Support	• Supports RAID 0/1/5/10 for SATA storage devices • Supports RAID 0/1/5 for M.2 NVMe storage devices
Additional Features	• Intel® Smart Response Technology • Intel® Rapid Storage Technology • Intel® Optane Memory
Network and Wireless Support	
Onboard LAN Controller	Realtek® RTL8125BG 2.5G LAN • Support for Wake-on-LAN • Supports Energy Efficient Ethernet 802.3az
Onboard WLAN (WiFi) Controller	Intel Dual Band Wireless-AX210 Wi-Fi 6E • Supports WiFi 802.11 a/b/g/n/ac/ax • Supports Bluetooth • Support for dual band frequency (2.4/5GHz, 6GHz *) • Supports MU-MIMO <i>*Wi-Fi 6E (6GHz band) is supported by Microsoft® Windows® 11, availability may vary based on country and region. A 6GHz compatible router is required for 6E functionality.</i>
Bluetooth Version	Bluetooth V5.2

Included Antenna(s)	2x "Pen Type" RP-SMA Male Compatible
Integrated Audio	
Audio Controller	Realtek® ALC1220 Codec
Channels	8-channel High Definition Audio
Playback	32-bit @ 192,000 Hz DAC
Rear I/O	
USB 3.2 Gen 2 (Type C)	1
USB 3.2 Gen 2 (Type-A)	2
USB 3.2 Gen 1 (Type-A)	3
USB 2.0 (Type-A)	2
HDMI™ 2.1	1
Wireless Antenna	2 (2T2R)
LAN (RJ45)	1
5.1-Channel Audio Jacks	• 1 x Front Surround/Stereo LR • 1 x Center/Subwoofer • 1 x Rear Surround • 1 x Line-In • 1 x Microphone • 1 x Optical SPDIF Out

Additional Features	• 1 x Clear CMOS Button • 1 x BIOS Flashback Button
Internal I/O	
M.2 (M-Key) Slot	3
M.2 (E-Key) Slot	1 * <i>* For included wireless card</i>
SATA 6Gbps Port	4
USB 3.2 Gen 2 Header (for Type-C)	1
USB 3.2 Gen 1 Header (for Type-A)	1 (Up to 2 ports per header)
USB 2.0 Header	2 (Up to 2 ports per header)
Front Panel Audio	1
4-pin PWM Fan Header	• 1 x CPU_FAN (Up to 24W) • 1 x AIO_PUMP (Up to 24W) • 5 x SYS_FAN (Up to 24W)
NZXT RGB Header	2 * <i>* Supports up to 5 NZXT RGB devices, 40 LEDs total per header.</i>
5V ARGB Header	1 * <i>* Supports up to 40 LEDs per header</i>
12V RGB Header	1 * <i>* Supports 5050 RGB LED strips with a maximum</i>

	<i>power rating of 12V 3A (36W) and length within 2 meters.</i>
ATX Power Header	• 1 x 24-pin ATX Power • 1 x 8-pin ATX 12V Power • 1 x 4-pin ATX 12V Power
Additional Features	• 1 x Power Button • 1 x Reset Button • 1 x POST LEDs
Product Info	
Model Number	• N7-Z69XT-B1 (Black) • N7-Z69XT-W1 (White)
UPC	• 810074840194 (Black) • 810074840187 (White)
EAN	• 5056547200125 (Black) • 5056547200118 (White)