

Ficha técnica – Placa base Intel Z790 (LGA1700)

Procesador

LGA1700 socket: Support for the 14th, 13th, and 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors

(Go to GIGABYTE's website for the latest CPU support list.)

L3 cache varies with CPU

Chipset

Intel® Z790 Express Chipset

Memoria

14th and 13th Generation Intel® Core™ i9/i7 Processors:

Support for DDR5 7600(O.C.) / 7400(O.C.) / 7200(O.C.) / 7000(O.C.) / 6800(O.C.) / 6600(O.C.) / 6400(O.C.) / 6200(O.C.) / 6000(O.C.) / 5800(O.C.) / 5600 / 5400 / 5200 / 4800 / 4400 MT/s memory modules

13th Generation Intel® Core™ i5/i3 and 12th Generation Intel® Core™, Pentium® Gold and Celeron® Processors:

Support for DDR5 4800 / 4400 MT/s memory modules

4 x DDR5 DIMM sockets supporting up to 256 GB (64 GB single DIMM capacity) of system memory

Dual channel memory architecture

Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode)

Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules

Support for Extreme Memory Profile (XMP) memory modules

(The CPU and memory configuration may affect supported memory types and speeds; refer to GIGABYTE Memory Support List.)

Gráfica integrada

Integrated Graphics Processor – Intel® HD Graphics support

1 x HDMI port, maximum resolution 4096x2160@60 Hz

Support for HDMI 2.1 and HDCP 2.3

Support for native HDMI 2.1 TMDS compatible ports

1 x DisplayPort, maximum resolution 4096x2304@60 Hz

Support for DisplayPort 1.2 and HDCP 2.3

(Graphics specifications may vary depending on CPU support.)

Audio

Realtek® Audio CODEC

High Definition Audio

2 / 4 / 5.1 / 7.1-channel audio

Audio jack functionality configurable via software

Support for S/PDIF Out

LAN

Realtek® 2.5GbE LAN chip (2.5 Gbps / 1 Gbps / 100 Mbps)

Zócalos de expansión

CPU: 1 x PCI Express x16 slot, PCIe 5.0, running at x16 (PCIEX16)

PCIEX16 supports graphics card or NVMe SSD only

Chipset: 1 x PCI Express x16 slot, PCIe 4.0, running at x4 (PCIEX4)

Chipset: 1 x PCI Express x16 slot, PCIe 3.0, running at x1 (PCIEX1_4)

Chipset: 2 x PCI Express x1 slots, PCIe 3.0 (PCIEX1_2, PCIEX1_3)

Interfaz de almacenamiento

CPU: 1 x M.2 connector (Socket 3, M key, type 22110/2280, PCIe 4.0 x4/x2) (M2A_CPU)

Chipset: 1 x M.2 connector (Socket 3, M key, type 2280, PCIe 4.0 x4/x2) (M2P_SB)

Chipset: 1 x M.2 connector (Socket 3, M key, type 2280, SATA and PCIe 4.0 x4/x2) (M2M_SB)

4 x SATA 6Gb/s connectors

RAID 0, 1, 5, 10 support for NVMe SSDs

RAID 0, 1, 5, 10 support for SATA devices

USB

1 x USB Type-C® (USB 3.2 Gen 2) rear panel

1 x USB Type-C® (USB 3.2 Gen 1) via internal header

1 x USB 3.2 Gen 2 Type-A (red) rear panel

6 x USB 3.2 Gen 1 (4 rear, 2 internal)

2 x USB 2.0/1.1 rear panel

4 x USB 2.0/1.1 via internal headers (Chipset + USB 2.0 Hub)

Conectores internos E/S

1 x 24-pin ATX main power connector

2 x 8-pin ATX 12V power connectors

1 x CPU fan header

1 x CPU fan / water cooling pump header

3 x system fan headers

1 x system fan / water cooling pump header

2 x addressable LED strip headers

3 x M.2 Socket 3 connectors

4 x SATA 6Gb/s connectors

Front panel, audio, S/PDIF, USB Type-C®, USB 3.2 Gen 1, USB 2.0 headers

2 x Thunderbolt™ add-in card connectors

TPM header, reset button, Q-Flash Plus button, reset jumper, Clear CMOS jumper

Panel E/S trasero

PS/2 keyboard/mouse port

USB Type-C® 3.2 Gen 2

USB 3.2 Gen 2 Type-A

4 x USB 3.2 Gen 1

2 x USB 2.0/1.1

HDMI, DisplayPort

RJ-45 LAN

3 x audio jacks

Controlador E/S y monitorización

iTE® I/O Controller Chip

Voltage, temperature, fan speed and water flow detection

Fan fail warning

Fan and pump speed control (depending on installed hardware)

BIOS

1 x 256 Mbit flash

Licensed AMI UEFI BIOS

PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Otras características

Support for GIGABYTE Control Center (GCC)

Support for Q-Flash

Support for Q-Flash Plus

Support for Smart Backup

Software incluido

Norton® Internet Security (OEM version)

LAN bandwidth management software

Sistema operativo

Support for Windows 11 64-bit

Support for Windows 10 64-bit

Formato

ATX Form Factor – 30.5 cm x 24.4 cm