



## Z390 UD (rev. 1.0)

- **Procesador**

Support for 9th and 8th Generation Intel® Core™ i9 processors/Intel® Core™ i7 processors/Intel® Core™ i5 processors/Intel® Core™ i3 processors/Intel® Pentium® processors/Intel® Celeron® processors in the LGA1151 package

L3 cache varies with CPU

(Please refer "CPU Support List" for more information.)

- **Chipset**

Intel® Z390 Express Chipset

- **Memoria**

4 x DDR4 DIMM sockets supporting up to 128GB (32GB single DIMM capacity) of system memory\*\*

\*\* Please note that the support for system total memory size depends on the CPU installed.

Dual channel memory architecture

Support for DDR4 4266(O.C.) / 4133(O.C.) / 4000(O.C.) / 3866(O.C.) / 3800(O.C.) / 3733(O.C.) / 3666(O.C.) / 3600(O.C.) / 3466(O.C.) / 3400(O.C.) / 3333(O.C.) / 3300(O.C.) / 3200(O.C.) / 3000(O.C.) / 2800(O.C.) / 2666 / 2400 / 2133 MHz memory modules

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

(Please refer "Memory Support List" for more information.)

- **Gráficos Integrados**

Integrated Graphics Processor-Intel® HD Graphics support:

1 x HDMI port, supporting a maximum resolution of 4096x2160@30 Hz

\* Support for HDMI 1.4 version and HDCP 2.2.

Maximum shared memory of 1 GB

Actual support may vary by CPU.

- **Audio**

Realtek® ALC887 codec

High Definition Audio

2/4/5.1/7.1-channel

\* To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.

Support for S/PDIF Out

- **LAN**

Realtek® GbE LAN chip (10/100/1000 Mbit)

- **Puertos de Expansión**

1 x PCI Express x16 slot, running at x16 (PCIEX16)

\* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.

2 x PCI Express x16 slots, running at x4 (PCIEX4\_1/PCIEX4\_2)

3 x PCI Express x1 slots

(All of the PCI Express slots conform to PCI Express 3.0 standard.)

- **Tecnología Multi-Gráficos**

Support for AMD Quad-GPU CrossFire™ and 2-Way AMD CrossFire™ technologies

- **Interfaz de Almacenamiento**

Chipset:

1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2 SSD support)

6 x SATA 6Gb/s connectors

Support for RAID 0, RAID 1, RAID 5, and RAID 10

\* Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.

Intel® Optane™ Memory Ready

- **USB**

Chipset:

8 x USB 3.1 Gen 1 ports (6 ports on the back panel, 2 ports available through the internal USB header)

2 x USB 2.0/1.1 ports available through the internal USB header

- **Conectores Internos de E/S**

1 x 24-pin ATX main power connector

1 x 8-pin ATX 12V power connector

1 x 4-pin ATX 12V power connector

1 x M.2 Socket 3 connector

6 x SATA 6Gb/s connectors

1 x CPU fan header

3 x system fan headers

1 x RGB LED strip header

1 x front panel header

1 x front panel audio header

1 x USB 3.1 Gen 1 header

1 x USB 2.0/1.1 header

1 x S/PDIF Out header

1 x Thunderbolt™ add-in card connector

1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0\_S module only)

1 x serial port header

1 x Clear CMOS jumper

- **Conectores del Panel Trasero**

1 x PS/2 mouse port

1 x PS/2 Keyboard port

1 x HDMI port

6 x USB 3.1 Gen 1 ports

1 x RJ-45 port

3 x audio jacks

- **Controlador de E/S**

iTE® I/O Controller Chip

- **Monitorización H/W**

Voltage detection

Temperature detection

Fan speed detection

Overheating warning

Fan fail warning

Fan speed control

\* Whether the fan speed control function is supported will depend on the fan you install.

- **BIOS**

1 x 128 Mbit flash

Use of licensed AMI UEFI BIOS

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

- **Características Únicas**

Support for APP Center

\* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.

3D OSD

@BIOS

Ambient LED

AutoGreen

Cloud Station

EasyTune

Easy RAID

Fast Boot

Game Boost

ON/OFF Charge  
Platform Power Management  
Smart Backup  
Smart Keyboard  
Smart TimeLock  
Smart HUD  
Smart Survey  
System Information Viewer  
USB Blocker  
V-Tuner

Support for Q-Flash

Support for Xpress Install

- **Software Incluido**

Norton® Internet Security (OEM version)

Realtek® 8118 Gaming LAN Bandwidth Control Utility

- **Sistema Operativo**

Support for Windows 10 64-bit

- **Diseño**

ATX Form Factor; 30.5cm x 23.0cm