



Gigabyte GA-Z170-HD3P - 1.0 - motherboard - ATX - LGA1151 Socket - Z170

Part Number: GA-Z170-HD3P (rev. 1.0)

General

- Chipset Type
Intel Z170
- Compatible Processors
Pentium, Celeron, Core i5, Core i3, Core i7
- Processor Socket
LGA1151 Socket
- Max Processors Qty
1
- Manufacturer
Gigabyte Technology Co. Ltd.

Expansion / Connectivity

- Expansion Slots
1 x CPU
4 x DIMM 288-pin
1 x PCIe 3.0 x16
1 x PCIe 3.0 x16 (x4 mode)
2 x PCIe 3.0 x1
2 x PCI
- Storage Interfaces
SATA-600 -connectors: 6 x 7pin SATA, 1 x M.2, 3 x SATA Express port - RAID 0 / RAID 1 / RAID 10 / RAID 5
- Internal Interfaces
4 x USB 2.0 - header
4 x USB 3.0 - header
1 x audio - header
1 x SPDIF out - header
1 x serial - header
1 x parallel - header
- Power Connectors
24-pin main power connector, 8-pin ATX12V connector
- RAID Features
Intel Smart Response Technology

Processor

- Max Supported Qty - 1
- Installed Qty - 0

Miscellaneous

- Product Type
motherboard

Audio

- Audio Codec
Realtek ALC887
- Compliant Standards
High Definition Audio

Memory

- Max Allocated RAM Size
512 MB

Networking

- Data Link Protocol
Ethernet, Fast Ethernet, Gigabit Ethernet
- Network
Gigabit Ethernet

Processor / Memory / Storage

- Max Supported Qty
1

Interface Provided

- Qty
1, 2, 3
- Type
DVI-D, HDMI, LAN (Gigabit Ethernet), PS/2 keyboard / mouse, USB 2.0, USB 3.0, USB 3.1, USB-C, VGA, audio line-in, audio line-out, audio line-out (center/subwoofer), audio line-out (rear), audio line-out (side surround), microphone
- Connector Type
mini-jack

Graphics

- Max Allocated RAM Size
512 MB

Video

- Video Output
graphics adapter (CPU required)

Audio Output

- Compliant Standards
High Definition Audio
- Type
sound card
- Audio Codec
Realtek ALC887
- Audio
High Definition Audio (8-channel)

RAM

- Max Supported Size
64 GB
- Features
Intel Extreme Memory Profiles (XMP), dual channel memory architecture

LAN

- Network Interfaces
Gigabit Ethernet

Supported RAM

- Bus Clock
2133 MHz, 3200 MHz (O.C.)
- Registered or Buffered
Unbuffered
- Features
Dual channel memory architecture, Intel Extreme Memory Profiles (XMP)
- Technology
DDR4
- Max Size
64 GB
- Supported RAM Integrity Check
Non-ECC

Header

- Brand
GIGABYTE
- Product Line
Gigabyte
- Model
GA-Z170-HD3P
- Packaged Quantity
1
- Compatibility
PC
- Revision
– 1.0

Mainboard

- Form Factor
ATX
- Processor Socket
LGA1151 Socket
- Compatible Processors
Celeron, Core i3, Core i5, Core i7, Pentium
- Chipset Type
Intel Z170
- Supported RAM Technology
DDR4 SDRAM
- Supported RAM Speed
2133 MHz, 3200 MHz (O.C.)
- Supported RAM Integrity Check
non-ECC
- Supported RAM (Registered or Buffered)
unbuffered
- RAM Slots
4 DIMM slots
- Power Connectors
24-pin main power connector, 8-pin ATX12V connector

Mainboard Features

- BIOS Type
AMI
- BIOS Features
ACPI 5.0 support, DMI 2.7 support, Dual BIOS, SMBIOS 2.7 support, UEFI BIOS, WfM 2.0 support
- Hardware Monitoring
CPU core temperature, CPU fan tachometer, CPU overheating protection, chassis fan tachometer, chassis temperature, system voltage
- Hardware Features
4K Ultra HD ready, AMD CrossFireX technology support, Audio Noise Guard with Path Lighting, AutoGreen, Easy RAID Installer, GIGABYTE Smart Switch, Intel Extreme Memory Profile (XMP) support, Intel Smart Response Technology, Q-Flash, Ultra Durable

Interfaces

- Storage
M.2 socket, SATA Express port, Serial ATA-600 (RAID)
- Storage Ports
6 x SATA-600 (RAID), 3 x SATA Express port, 1 x M.2
- RAID Features
Intel Smart Response Technology
- USB 3.0 / FireWire
USB 3.0, USB 3.1, USB-C
- USB / FireWire Ports Configuration (Active)
1 x USB-C + 1 x USB 3.1 + 3 x USB 3.0 + 2 x USB 2.0

Expansion Slots

- Total Qty
1, 2, 4
- Slot Comments
x4 mode
- Type
CPU, DIMM 288-pin, PCI, PCIe 3.0 x1, PCIe 3.0 x16

Software

- Software Included
@BIOS, Cloud Station, EasyTune, GIGABYTE App Center, GIGABYTE Fast Boot, GIGABYTE USB Blocker, Norton Internet Security, Smart TimeLock, Xpress Install, cFosSpeed

Video Memory

- Max Allocated RAM Size
512 MB

Dimensions & Weight

- Width
12 in
- Depth
7.8 in

Storage Interfaces

- Interface
Serial ATA-600
- Connector(s)
6 x 7pin Serial ATA, 1 x M.2, 3 x SATA Express port
- RAID (Level)
RAID 0 / RAID 1 / RAID 10 / RAID 5

Internal Interfaces

- Type
SPDIF out, USB 2.0, USB 3.0, audio, parallel, serial
- Connector Type
header
- Qty
1, 4

Features

- BIOS Type
AMI
- BIOS Features
WfM 2.0 support, UEFI BIOS, SMBIOS 2.7 support, DMI 2.7 support, ACPI 5.0 support, Dual BIOS
- Hardware Features
Q-Flash, AutoGreen, Intel Extreme Memory Profile (XMP) support, Intel Smart Response Technology, Ultra Durable, AMD CrossFireX technology support, Easy RAID Installer, 4K Ultra HD ready, Audio Noise Guard with Path Lighting, GIGABYTE Smart Switch
- Hardware Monitoring
CPU core temperature, chassis temperature, CPU fan tachometer, chassis fan tachometer, system voltage, CPU overheating protection

General

- Manufacturer
Gigabyte Technology Co. Ltd.