

Z170M-E D3

- **Overview**
- **Specifications**
- **Gallery**
- **Support**

[Print](#)

- **CPU**

Intel® Socket 1151 for 6th Generation Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processors

Supports Intel® 14 nm CPU

Supports Intel® Turbo Boost Technology 2.0

* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

* Refer to www.asus.com for CPU support list

- **Chipset**

Intel® Z170

- **Memory**

4 x DIMM, Max. 64GB, DDR3

3100(O.C.)/2933(O.C.)/2800(O.C.)/2666(O.C.)/2400(O.C.)/2200(O.C.)/2133(O.C.)/2000(O.C.)/1866(O.C.)/1600/1333 MHz Non-ECC, Un-buffered Memory

Supports Intel® Extreme Memory Profile (XMP)

* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

* Refer to www.asus.com for the Memory QVL (Qualified Vendors Lists).

* The maximum memory frequency supported varies by processor.

- **Graphic**

Integrated Graphics Processor- Intel® HD Graphics support

Multi-VGA output support : HDMI/DVI-D/RGB ports

- Supports HDMI with max. resolution 4096 x 2160 @ 24 Hz / 2560 x 1600 @ 60 Hz

- Supports DVI-D with max. resolution 1920 x 1200 @ 60 Hz

- Supports RGB with max. resolution 1920 x 1200 @ 60 Hz

Maximum shared memory of 1024 MB

Supports Intel® InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™

Supports up to 3 displays simultaneously

- **Multi-GPU Support**

Supports AMD 2-Way CrossFireX Technology

- **Expansion Slots**

1 x PCIe 3.0/2.0 x16 (x16 mode, gray)

1 x PCIe 3.0/2.0 x16 (max at x4 mode, black)

1 x PCIe 3.0/2.0 x1

1 x PCI

- **Storage**

Intel® Z170 chipset :

1 x M.2 Socket 3, , with M key, type 2242/2260/2280 storage devices support (both SATA & PCIE mode)

4 x SATA 6Gb/s port(s), gray,

Support Raid 0, 1, 5, 10

Supports Intel® Smart Response Technology*¹

- **LAN**

Realtek® RTL8111H, 1 x Gigabit LAN Controller(s)

- **Audio**

Realtek® ALC887-VD2 8-Channel High Definition Audio CODEC *²

- Supports : Jack-detection, Front Panel Jack-retasking

Audio Feature :

- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference

- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals

- Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity

- **USB Ports**

Intel® Z170 chipset :

8 x USB 3.0/2.0 port(s)

Intel® Z170 chipset :

6 x USB 2.0/1.1 port(s)

- **Special Features**

ASUS 5X Protection II :

- ASUS LANGuard - 2.5X higher surge tolerance

- ASUS Overvoltage Protection - World-class circuit-protecting power design

- ASUS DIGI+ VRM - 7 Phase digital power design

- ASUS DRAM Overcurrent Protection - Prevents damage from short circuits

- ASUS Stainless-Steel Back I/O - 3X corrosion-resistance for greater durability

ASUS EPU :

- EPU

ASUS Exclusive Features :

- GPU Boost

- AI Suite 3

- Ai Charger

- Anti-Surge

- Low EMI Solution

- USB 3.0 Boost

- Disk Unlocker

- Mobo Connect

- PC Cleaner

ASUS Quiet Thermal Solution :

- Stylish Fanless Design Heat-sink solution
- ASUS Fan Xpert 2+

ASUS EZ DIY :

- ASUS O.C. Tuner
- ASUS CrashFree BIOS 3
- ASUS EZ Flash 3
- ASUS UEFI BIOS EZ Mode
- Push Notice

ASUS Q-Design :

- ASUS Q-Slot
- ASUS Q-DIMM

Media Streamer

- **Operating System Support**

Windows® 10 , 64bit

Windows® 8.1 , 64bit

Windows® 7 , 32bit/64bit *3

- **Back I/O Ports**

1 x PS/2 keyboard (purple)

1 x PS/2 mouse (green)

1 x DVI-D

1 x D-Sub

1 x HDMI

1 x LAN (RJ45) port(s)

4 x USB 3.0 (blue) Type-A

2 x USB 2.0

3 x Audio jack(s)

- **Internal I/O Ports**

2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin)

2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)

1 x M.2 Socket 3 for M Key, type 2242/2260/2280 devices

1 x LPT header

1 x COM port(s) connector(s)

4 x SATA 6Gb/s connector(s)

1 x CPU Fan connector(s) (1 x 4 -pin)

2 x Chassis Fan connector(s) (2 x 4 -pin)

1 x S/PDIF out header(s)

1 x 24-pin EATX Power connector(s)

1 x 8-pin ATX 12V Power connector(s)

1 x Front panel audio connector(s) (AAFP)

1 x System panel(s)

1 x Clear CMOS jumper(s)
1 x 14-1 pin TPM connector

- **Accessories**

User's manual
I/O Shield
2 x SATA 6Gb/s cable(s)
1 x M.2 Screw Package
1 x Supporting DVD

- **BIOS**

128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0 ACPI 5.0, Multi-language BIOS,

ASUS EZ Flash 3, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log, F12 PrintScreen, and ASUS DRAM SPD (Serial Presence Detect) memory information

- **Manageability**

WfM 2.0, DMI 3.0, WOL by PME, PXE

- **Support Disc**

Drivers
ASUS Utilities
ASUS EZ Update
Anti-virus software (OEM version)

- **Form Factor**

uATX Form Factor
9.6 inch x 8.8 inch (24.4 cm x 22.4 cm)

- **Note**

*1: These functions will work depending on the CPU installed.

*2: Use a chassis with HD audio module in the front panel to support an 8-channel audio output.

*3: Please refer to ASUS website and download “Windows® 7 installation guide” and “ASUS EZ installer” to install Windows® 7.