

Z170-P

Note: The specifications are subject to change without notice.

CPU	LGA1151 socket for 6th Generation Intel® Core™ i7/ i5/ i3/Pentium®/Celeron® Processors
	Supports 14nm CPU
	Supports Intel® Turbo Boost Technology 2.0*
	* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
Chipset	Intel® Z170 Express Chipset
Memory	4 x DIMM, max. 64GB, DDR4 3466(O.C.)/3400(O.C.)/3333(O.C.)/3300(O.C.)/3200(O.C.)/3000(O.C.)/2800(O.C.)*/ 2666(O.C.)*/2400(O.C.)*/2133 MHz, non-ECC, un-buffered memory
	Dual channel memory architecture
	Supports Intel® Extreme Memory Profile (XMP)
	*Refer to www.asus.com for the Memory QVL (Qualified Vendors List).
Expansion Slots	1 x PCI Express 3.0/2.0 x16 slot (at x16 mode)
	1 x PCI Express 3.0/2.0 x16 slot (max. at x4 mode, compatible with PCIe x1 and x4 devices)
	2 x PCI Express 3.0/2.0 x1 slots
	2 x PCI slots
Multi-GPU Support	Supports AMD® CrossFireX™ Technology
VGA	Integrated Graphics Processor- Intel® HD Graphics support
	Multi-VGA output support: HDMI/DVI-D port
	- Supports HDMI with max. resolution 4096 x 2160@24Hz / 2560 x 1600@60Hz
	- Supports DVI-D with max. resolution of 1920 x 1200 @60Hz
	Supports Intel® InTru™ 3D/Quick Sync Video/Clear Video HD
Maximum shared memory of 512MB	
Storage	Intel® Z170 Express Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology 14 support
	- 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage devices support (both SATA & PCIE mode)
	- 4 x SATA 6.0 Gb/s ports (gray)
	- Supports Intel® Smart Response Technology*
	* These functions will work depending on the CPU installed.
LAN	Realtek® 8111H Gigabit LAN support LANGuard
Audio	Realtek® ALC887 8-channel high definition audio CODEC
	- Breathing Audio LED - Ensures precision analog/digital separation and greatly reduced multi-lateral interference, with a gorgeous illuminated trace path
	- Audio Shielding: Ensures precision analog/digital separation and greatly reduces 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.
	- Supports jack-detection and front panel jack-retasking
USB	Intel® Z170 Express Chipset- supports ASUS USB 3.0 Boost
	- 6 x USB 3.0/2.0 ports (4 ports @mid-board; 2 ports @back panel, blue, Type A)

	<ul style="list-style-type: none"> - 1 x 5Gb/s USB Type C port (@back panel), supports 3A power output - 6 x USB 2.0/1.1 ports (4 ports @mid-board; 2 ports @back panel)
ASUS Special Features	ASUS 5X PROTECTION II
	<ul style="list-style-type: none"> - ASUS LANGuard - Protects against LAN surges, lightning strikes and static-electricity discharges!
	<ul style="list-style-type: none"> - ASUS Overvoltage Protection - World-class circuit-protecting power design
	<ul style="list-style-type: none"> - ASUS DIGI+ VRM - 4+2+1 Phase digital power design
	<ul style="list-style-type: none"> - ASUS DRAM Overcurrent Protection: Enhanced DRAM overcurrent protection
	<ul style="list-style-type: none"> - ASUS Stainless-Steel Back I/O: 3X corrosion-resistance for greater durability!
	Superb Performance
	M.2 onboard
	<ul style="list-style-type: none"> - The latest transfer technologies with up to 32Gb/s data transfer speeds
	ASUS Fan Xpert 3
	<ul style="list-style-type: none"> - Featuring Fan Auto Tuning function and multiple thermistors selection for optimized system cooling control
	ASUS EPU
	<ul style="list-style-type: none"> - EPU
	PC Cleaner
	<ul style="list-style-type: none"> - Fast and easy way to get rid of unnecessary junk files
	UEFI BIOS
	<ul style="list-style-type: none"> - Most advanced options with fast response time
	USB 3.0 Boost
	<ul style="list-style-type: none"> - featuring speedy USB 3.0 transmission
	Gaming Scenario
	Audio Features
	<ul style="list-style-type: none"> - Audio that roars on the battlefield
	Media Streamer
	<ul style="list-style-type: none"> - Pipe music or movies from your PC to a smart TV, your entertainment goes wherever you go! - Media Streamer app for portable smartphone/tablet, supporting iOS 7 & Android 4.0 systems
	ASUS Exclusive Features
	<ul style="list-style-type: none"> - ASUS Ai Charger
	<ul style="list-style-type: none"> - ASUS AI Suite 3
	<ul style="list-style-type: none"> - ASUS Disk Unlocker featuring 3TB + HDD support
<ul style="list-style-type: none"> - Anti Surge 	
EZ DIY	
Push Notice	
<ul style="list-style-type: none"> - Monitor your PC status with smart devices in real time 	
UEFI BIOS EZ Mode	
<ul style="list-style-type: none"> - featuring friendly graphics user interface 	
<ul style="list-style-type: none"> - ASUS O.C. Tuner 	
<ul style="list-style-type: none"> - ASUS CrashFree BIOS 3 	
<ul style="list-style-type: none"> - ASUS EZ Flash 3 	
Q-Design	
<ul style="list-style-type: none"> - ASUS Q-DIMM 	
<ul style="list-style-type: none"> - ASUS Q-Slot 	

ASUS Quiet Thermal Solution	Quiet Thermal Design:
	- ASUS Fan Xpert 3
	- Stylish Fanless Design: PCH Heat-sink & MOS Heat-sink solution
ASUS Exclusive Overclocking Features	Precision Tweaker 2:
	- vCore: Adjustable CPU Core voltage at 0.005V increment
	- iGPU: Adjustable CPU Graphics voltage at 0.005V increment
	- vCCIO: Adjustable Analog and Digital I/O voltage at 0.005V increment
	- vCCSA: Adjustable CPU System Agent voltage at 0.005V increment
	- vDRAM Bus: 160-step Memory voltage control
	- vPCH: 3-step Chipset voltage control
	SFS (Stepless Frequency Selection)
	- BCLK/PCIE frequency tuning from 40MHz up to 170MHz at 0.1MHz increment
Overclocking Protection:	
	- ASUS C.P.R.(CPU Parameter Recall)
Back Panel I/O Ports	1 x PS/2 keyboard port
	1 x PS/2 mouse port
	1 x HDMI port
	1 x DVI-D port
	1 x LAN (RJ45) ports
	2 x USB 3.0/2.0 ports (blue, Type A)
	1 x USB 5Gb/s Type C port
	2 x USB 2.0/1.1 ports
	3-Jack 8-Channel Audio I/O ports
Internal I/O Connectors	2 x USB 3.0/2.0 connectors support additional 4 USB ports (19-pin)
	2 x USB 2.0/1/1 connectors support additional 4 USB ports
	4 x SATA 6.0Gb/s connectors (gray)
	1 x M.2 Socket 3
	1 x 4-pin CPU Fan connector for both 3-pin (DC mode) and 4-pin (PWM mode) CPU coolers control*
	2 x 4-pin Chassis Fan connectors for 3-pin (DC mode) and 4-pin (PWM mode) coolers control
	1 x Front panel audio connector
	1 x System panel connector
	1 x S/PDIF out header
	1 x 24-pin EATX Power connector
	1 x 8-pin EATX 12V Power connector
	1 x COM header
	1 x Clear CMOS jumper
	* The CPU Q-Fan control setting is set as default in Auto mode for detecting the type of CPU fan installed and switches to the control mode automatically.
BIOS	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI3.0, WfM2.0, SM BIOS 3.0, ACPI 5.1, 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
	2 x Serial ATA 6.0Gb/s cables

Accessories	1 x I/O Shield
	1 x M.2 screw package
	1 x Support DVD
	1 x User's manual
Support DVD	Drivers
	ASUS Utilities
	ASUS EZ Update
	Anti-virus software (OEM version)
Operating System Support	Windows® 10 (64-bit)
	Windows® 8.1 (64-bit)
	Windows® 7 (64-bit/32-bit)
Form Factor	ATX form factor: 12.0 in. x 8.8 in. (30.5 cm x 22.4cm)