

SPECIFICATION

CPU	Intel® 12 th Generation Core™ i9/i7/i5/i3 processors / 13 th Gen 1 x Socket LGA-1700
Chipset	Intel® W680 Chipset
Memory	4 x DIMM slots, Max 128GB, DDR5 4400/3600 MHz, ECC/ non-ECC UDIMM *Actual memory frequency differs from Intel CPU and memory module. Please check Intel official site for more detail about the memory supported by each CPU.
Expansion Slots	Total: 5 Location-1: PCIe x16_1 slots (Gen5 x16/x8 link, FH, FL) Location-2: PCIe x1 slots (Gen3 x1 link, FH, FL) Location-3: PCIe x16_2 slots (Gen5 x0/x8 link, FH, FL) Location-5: PCIe x16_3 slots (Gen4 x4 link, FH, FL)* Location-6: PCIe x16_4 slots (Gen3 x4 link, FH, FL) * the bandwidth of PCIe link is shared with M.2_2
GPU support	Supports 1 x double deck PCIe x16 GPU card
Storage	SATA Controller : Intel® W680 Chipset: 8 x SATA 6Gb/s Intel® RST (Windows) (Support software RAID 0, 1, 10 & 5) Drive bay: 3 x internal 3.5" Drive bays 1 x Internal 2.5" Drive bay M.2: 1 x M.2_1 socket3, up to 2280 type (PCIe Gen4 x4) 1 x M.2_1 socket3, up to 2280 type (PCIe Gen3 x) 1 x M.2_2 socket3, up to 22110 type (PCIe Gen4 x4) 1 x M.2(Wifi), up to 2230 type (PCIe Gen3x1) (Support Intel® Optane memory)
LAN	2 x Intel® I225-LM 2.5GbE LAN
Audio	Realtek® ALC897 7.1-Channel High Definition Audio CODEC
USB	Total 10 USB ports Front: 1 x USB 3.2 Gen2x2 port 2 x USB 3.2 Gen1 ports 1 x USB 2.0 ports Rear: 2 x USB 3.2 Gen2 ports (1 port at Type A, 1 port at Type C) 4 x USB 3.2 Gen1 ports
Front I/O Ports	1 x USB 3.2 Gen2x2 port 2 x USB 3.2 Gen1 ports 1 x USB 2.0 ports 1 x Headphone jack 1 x Microphone jack
Switch / LED	Front: 1 x Power Switch/LED 1 x Reset Switch 1 x HDD Access LED
Rear I/O Ports	2 x USB 3.2 Gen2 ports (1 port at Type A, 1 port at Type C) 4 x USB 3.2 Gen1 ports 1 x HDMI 1 x DisplayPort 1 x DVI-D 1 x VGA 2 x LAN ports (RJ45) 1 x 7.1-channel Audio I/O ports (5+1 Audio jacks)
Power Supply	300W Bronze ATX Power Supply (100-127/220-240Vac, 6-3A, 50-60Hz, Class I) 550W Gold ATX Power Supply (100-240Vac, 9-4.5A, 50-60Hz,) 750W Gold ATX Power Supply (100-240Vac, 9-4.5A, 50/60Hz)
Form Factor	423mm x 190mm x 435mm 16.7" x 7.48" x 17.1"