



Desktop

Key Features

- 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor
- Single Socket LGA-1200 (Socket H5) supported, CPU TDP support Up to 140W TDP
- Intel® Z490
- Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz, in 4 DIMM slots
- ;
- 2933 MHz to 4000+MHz(OC) in four 288-pin memory slots.
- 4 PCIe 3.0 x16 slots (16/NA/16/NA or 8/8/8/8),
- 1 PCIe 3.0 x1
- M.2 Interface:** 2 PCIe 3.0 x4, RAID 0 & 1
- M.2 Form Factor:** 2260/2280/22110
- M.2 Key:** M-Key
- RSTe software raid
- 2 M.2 M-Key PCIe 3.0 x4, 2260/2280/22110
- Single LAN with Intel® single Ethernet PHY i219V
- Single LAN with Aquantia® AQC107 10G Ethernet Controller
- 1 DP (DisplayPort) port, 1 HDMI port,
- DP version 1.4, HDMI version 2.0a

Specifications

Product SKUs MBD-C9Z490-PG
Physical Stats Form Factor ATX
Dimension 12" x 9.6" (30.48cm x 24.38cm)
Processor CPU 10th Generation Intel® Core™ i9/Core™ i7/Core™ i5/Core™ i3/Pentium®/Celeron® Processor Single Socket LGA-1200 (Socket H5) supported, CPU TDP supports Up to 140W TDP
System Memory Memory Capacity 4 DIMM slots Up to 128GB Unbuffered non-ECC UDIMM, DDR4-2933MHz
Memory Type 128GB Unbuffered Non
DIMM Sizes 4GB, 8GB, 16GB, 32GB
Memory Voltage 1.2V
On-Board Devices Chipset Intel® Z490
SATA Intel® Z490 Express controller for 4 SATA 3 (6 Gbps) ports; RAID 0, 1, 5, 10
Audio 1xALC 1220 HD Audio port(s)ALC 1220 HD Audio
Network Controllers Single LAN with Aquantia® AQC107 10G Ethernet Controller Single LAN with Intel® single Ethernet PHY i219V
Input / Output SATA 4 SATA3 (6Gbps) port(s)
LAN 1 RJ45 Gigabit Ethernet LAN ports 1 RJ45 10GBase-T ports
USB 4 USB 2.0 port(s) (4 via header) 4 USB 3.2 Gen1 port(s) (2 via header; 2 type A) 4 USB 3.2 Gen2 port(s) (1 rear type C; 1 via header; 2 rear type A) 1 USB 3.2 Gen2x2 port(s) (1 rear type C)
Video Output 1 DP (DisplayPort) port(s), 1 HDMI port(s)
Serial Port 1 COM Port(s) (1 header)
TPM 1 TPM Header

Expansion Slots PCIe 4 PCIe 3.0 x16 slots (16/NA/16/NA or 8/8/8/8), 1 PCIe 3.0 x1
M.2 M.2 Interface: 22 PCIe 3.0 x4/PCIe 3.0 x4, RAID 0 & 1 Form Factor: 2260/2280/22110/2260/2280/22110 Key: M-Key/M-Key
System BIOS BIOS Type 256MB SPI Flash with AMI BIOS
BIOS Features ACPI 6.0 Plug and Play (PnP) BIOS rescue hot keys SMBIOS 3.0 or later Riser card auto-detection support
Management Software SuperDoctor® 5, Watchdog
System Management Software SuperDoctor 5
Power Configurations ACPI Power Management
PC Health Monitoring Voltage VBAT, System temperature, PCH temperature, Memory temperature, Memory, CPU temperature, CPU, 3.3V standby, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, +1.8V PCH, +1.0V PCH, 5 (4-pin)
Temperature CPU thermal trip support
FAN 5x 4-pin fan headers (up to 5 fans) Fan speed control 5 fans with tachometer status monitoring Overheat LED indication
Other Features WOL, RoHS, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, ATX Power connector, ACPI power management, 8-pin 12v DC power connector, Voltage and Frequency Overclocking
Operating Environment Operating Temperature Range 0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range -20°C - 60°C (-4°F - 140°F)

Parts List

Standard Parts (Retail Package)

BACK PLATE(I/O Shield)

Part Number	MCP-260-00147-0N
Qty	1
Description	-

Driver CD

Part Number	CBL-SAST-1001-2
Qty	1
Description	-

Quick Reference Guide

Part Number	MNL-2238-QRG
Qty	1
Description	-

S-Connector

Part Number	JMP-0010L-0000-PRX
Qty	1
Description	-

SATA Cables

Part Number	CBL-SAST-1000-2
Qty	2
Description	Right-Angle SATA Cable

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V
Qty	1
Description	-