



Features

- Compact fanless system with for IBASE MB310 customized board
- 10th Gen Intel® Core™ i7/i5/i3 Processors (35W TDP)
- Front removable drive bay for HDD/SSD
- 1x PCIe (x8) + 1x PCIe (x4) expansion slot via IP302 riser card
- Over/Under/Reverse voltage protection
- Supports DIN-rail mount & wall mount
- TPM 2.0

IP302 Riser card



Specifications

System Mainboard	MB310 with Intel® Q470E PCH
CPU Type	10th Gen Intel® Core™ i7/i5/i3 desktop Processors (35W TDP)
System Speed	Up to 4.5GHz
Memory	2x DDR4-2933/2666 SO-DIMM, Max. 64GB
Front Panel External I/O	6x Antenna hole for WLAN/4G/5G module
Rear Panel External I/O	1x HDMI connector 2x DisplayPort connector 1x Audio jack for Line-out 4x USB 3.0 ports 2x USB 2.0 ports (1x software programmable) 1x Red HDD LED, 1x green power LED, 2x Error LED by programming 1x RS232/422/485 port for COM#1 1x RS232 port for COM#2 2x RJ45 2.5G Ethernet port 1x 3-pin DC-in terminal block for 24V (±10%) 1x 2-pin terminal block connector for remote access 1x power button
Expansion Slots	1x M.2 2230 E-key (USB 2.0 & PCIe) 1x M.2 3052 B-key (USB 2.0 & 3.0) 1x PCIe (x8) slot 1x PCIe (x4) slot
Storage	1x 2.5" HDD/SSD (external-accessible) 1x M.2 2280 M-key (SATA & PCIe(4x))
Construction	Aluminum & steel
Chassis Color	Silver & Gray
Mounting	Desktop or wall mount (wall mount kit included) Side mounting DIN-rail mounting (optional)
Dimensions	275mm (W) x 150mm (D) x 117mm (H) 10.83" (W) x 5.91" (D) x 4.61" (H)
Weight	3.5 kg
Operating Temperature	-10°C ~ 60°C (14°F~140°F) *with airflow -10°C ~ 50°C (14°F to 122°F) without airflow
Storage Temperature	-20°C ~ 80°C (-4°F to 176°F)
Relative Humidity	5~90% @ 45°C, (non-condensing)
Vibration	Non-Operating: 1.0 grms / 5~500Hz / random operation Operating:0.25 grms / 5~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms
Certification	CE / LVD / FCC Class B (TBD)

Ordering Information

AMS312M	Fanless System with MB310, w/o CPU/ memory/ storage/ Power adaptor, Support vPro & iAMT 11.0, desktop or wall mount brackets (RoHS2), 1x PCIe (x8) + 1x PCIe (x4) expansion slots, via IP302 riser card
180W power adaptor (optional)	180W (24V @7.5A) power adaptor, bare wire type Compatible with IEC62368-1/EN62368-1
Optional Accessories	WiFi/BT antenna kit LTE/5G antenna kit GPS antenna kit

Dimensions and Drawing

