



Rear I/O

Features

- Fanless system with IBASE MB230 customized board
- 9th/8th Gen Intel® Core™ i7/i5/i3 Desktop Processors
- Dual SIM slots support WWAN redundancy
- 4x RJ45 Gigabit Ethernet port (2x supports 802.3at PoE+)
- 3x M.2 (B-Key/E-Key/M-Key)
- Supports Over/Under/Reverse voltage protection
- iSMART, iAMT (11.6), TPM (2.0)
- Flexible expansion slot system
- 2x 2.5" storage (supports RAID 0/1)

Specifications

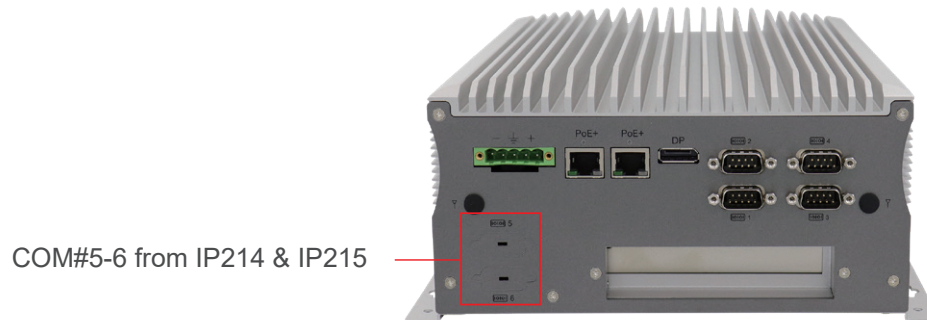
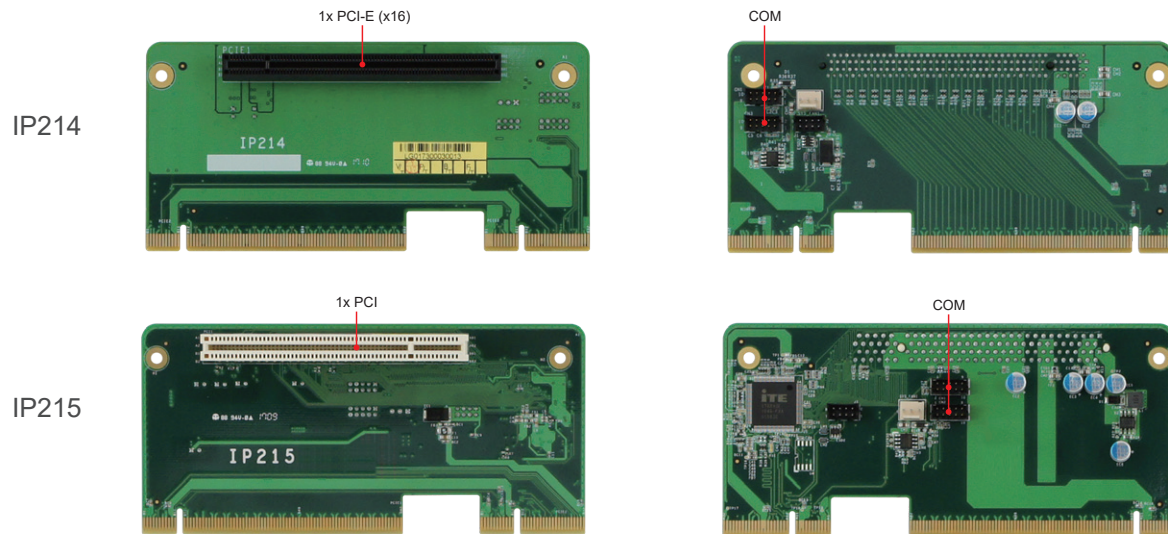
System Mainboard	MB230AF with Intel® Q370 PCH
CPU Type	9th/8th Gen Intel® Core™ i7/i5/i3 desktop processors
System Speed	Up to 4.00 GHz
Memory	2x DDR4-2666/2400 SO-DIMM, Max. 32GB
Front Panel External I/O	1x RS232/422/485 port for COM#1~COM#2 3x RS232 ports for COM#3~COM#4 2x RS232 ports for COM#5~6 from optional IP214/5 1x DisplayPort (1.2) 2x RJ45 Gigabit Ethernet port (Supports 802.3at PoE+) 1x 5-pins DC-in terminal block type for 12V (±10%) or 18V (-10%)~24V (+10%) 2x Antenna holes 1x expansion slot
Rear Panel External I/O	1x DVI-D + HDMI(1.4) 4x USB3.1 ports 2x Antenna holes 2x RJ45 Gigabit Ethernet port + Dual USB3.1 stack ports 1x Red HDD LED 1x Power button with Green LED indicator 1x 2-pin terminal block 2x SIM card
Expansion Slots	1x Flexible PCI-E / PCI expansion slot 1x M.2 (B-Key supports USB 2.0 for 4G/LTE) 1x M.2 (E-Key supports PCI-E + USB 2.0 for CNVi) 1x M.2 (M-Key supports PCI-E(4x) + SATA for NVMe SSD)
Storage	2x 2.5" HDD/SSD 1x M.2 (M-Key supports PCI-E(4x) + SATA for NVMe SSD)
Construction	Aluminum & steel
Chassis Color	Silver & Gray
Mounting	Desktop & wall mount
Dimensions	210mm (W) x 285mm (D) x 109mm (H) 8.27" (W) x 11.22" (D) x 4.29" (H)

Weight	4.5 kg
Operating Temperature	-20°C to 70°C (-4°F~158°F) (for 35W CPU)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	5~90% @60°C, (non-condensing)
Vibration	Operating : 3Grms / 5~500Hz
Shock	Operating : 20G / 11ms Non-operating : 40G / 11ms
Certification	CE / FCC Class A/ LVD

Ordering Information

AMI231AF (Supports Sierra module)	Fanless box System with MB230AF, w/ Intel® Core™ i7/i5/i3 desktop Processor, 6x COM (from IP214 / IP215), 1x 8GB memory, 1x 2.5" 64GB MLC industrial-grade SSD, w/o power adaptor, optional riser card
IP214 Riser Card Kit (optional)	IP214 (ZM05IP214---0A1000P) w/ COM cable (2x C501PK1H009302A00P) for AMI221/AMI231
IP215 Riser Card Kit (optional)	IP215 (ZM05IP215---0A1000P) w/ COM cable (2x C501PK1H009302A00P) for AMI221/AMI231
330W Power Adaptor Kit (optional)	330W (24V@13.75A) power adaptor kit Compatible with IEC62368-1/EN62368-1
Optional Accessories	Global 4G antenna kit for Sierra Wireless EM7565 module, M.2 (M-Key 2280) Thermal kit

Expansion Cards



Dimensions and Drawing

