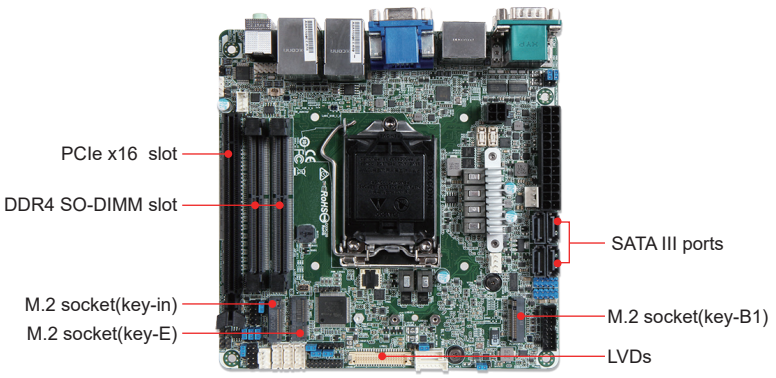
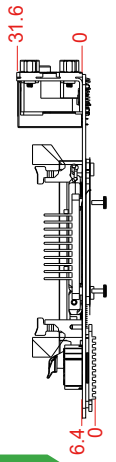
WADE-8212-Q470E

Leading Desktop Intel® 10th Gen Core™ Processors Mini-ITX with DDR4 SO-DIMM up to 64G, VGA , DP port, HDMI, LVDS,Two GbE LAN ports, Five COM Ports



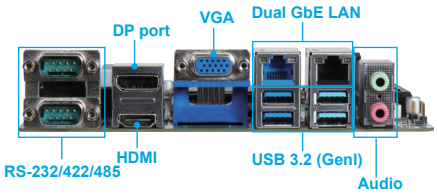


WADE-8212-Q470E is based on Intel® Q470E chipset and Desktop processors including Intel® 10th Gen Core™ i3/i5/i7 SKU. This board supports DDR4, PCIe 3.0, and SATAIII. Those features help you to build high performance and stabile system.

FEATURES

- Intel® 10th Gen Core™ Processors support
- Supports two SO-DIMMs support DDR4 Non-ECC SDRAM up to 64GB
- Supports dual Ethernet(one port support 1G/one port support 2.5G), five COM Ports, ten USB Ports, four SATA III Ports and Audio
- Supports one PCIe x16 (Gen3), one M.2 Type E socket(2230) for Wireless,one M.2 Type M socket(2242/2260/2280) for SSD, and one mini-PCIe slot

REAR I/O



ORDERING GUIDE

AB1-3D63	(R).WADE-8212-Q470E Mini-ITX ESB.Q470E w/o ECC LGA1200.w/ DDR4 SO-DIMM /VGA/DP/HDMI/Dual GbE/ COM/Audio/USB

PACKING LIST

One WADE-8212-Q470E Main board
One I/O shield
One Installation CD
One SATA cable
One CPU coolor bracket

GENERAL

Processor	Intel® 10th Gen Core™ Processors CPU in LGA1200 package
Chipset	Intel® Q470E
BIOS	AMI uEFI BIOS
Memory	Supports up to 64GB DDR4 2400/2666/2933MHz Non-ECC SDRAM on two SO-DIMM socket
Storage Devices	- Supports four SATA III port - 1x M.2 Type M socket (2242/2260/2280) for SSD
Watchdog Timer	Programmable watchdog timer, time out period from 1 sec to 255 secs.
Hardware Monitoring	System monitor(Voltage,Fan Speed and Temperature)
Expansion Interface	- 1x PCIe x16 - 1x M.2 Type E socket (2230) for Wireless - 1x M.2 Type B socket (3042) for 4G/5G

I/O INTERFACE

Super I/O	F81966D-I
Audio	- Realtek AL887 High Definition Audio integrated in Intel SoC - Audio Jack on rear I/O with Line-out/ Mic-in
Ethernet	- Intel® I219LM & I225LM Ethernet controller - 2x RJ45 connectors on rear I/O
Serial port	- 2x RS-232/422/485 ports on REAR I/O - 3x RS-232 ports on board pin header
USB	- 4x USB3.2 on rear I/O - 2x USB3.2 on board pin header - 4x USB2.0 on board pin header
GPIO	8-bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	- Intel® UHD Graphics 630 supports DirectX 12, OpenGL 4.5 - Video decode HW acceleration support for H.264, H.265, MPEG2, VC-1/WMV9, JPEG, VP8, and VP9
Display Interface	- LVDS:Dual channel 2bit LVDS on board, resolution up to 1920 x1200 - DP:DP port on rear I/O, resolution up to 4096x2160 - HDMI:HDMI port on rear I/O, resolution up to 4096x2160 - VGA:One VGA port on rear I/O resolutoin up to 1920x1200

Mechanical & Environment

Dimension	170mm(L) x 170mm(W) x 1.6mm(H)
Power Supply	ATX power input
Environment	- Operation Temperature: 0°C to 60°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 100,000 hours at 40°C

AMI BIOS · USB 3.0 · USB 2.0 · 2 GbE · SATA 6Gb · DP · HDMI · LVDS · FC CE · Windows Embedded · RoHS · intel IoT Solutions Alliance