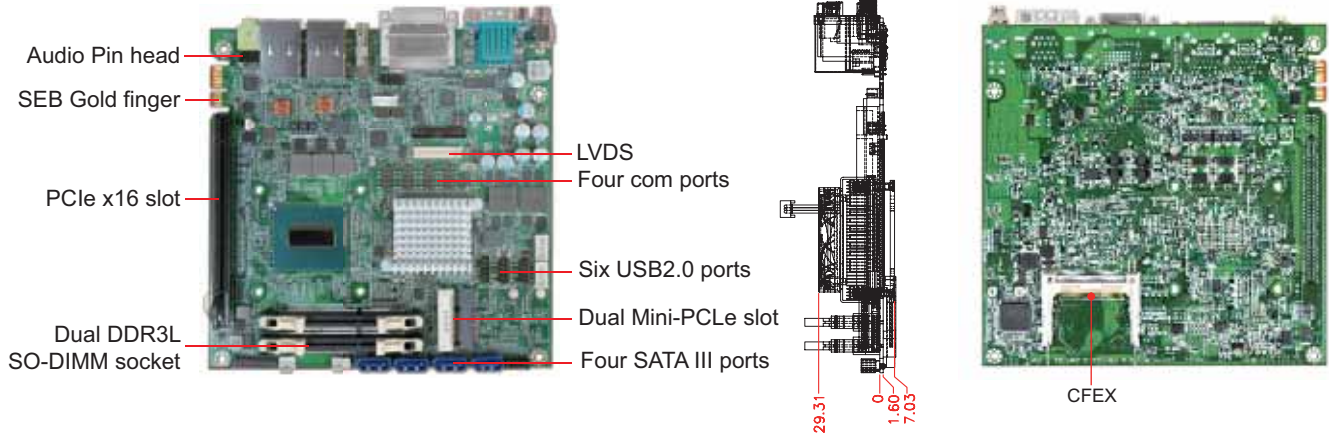


# WADE-8022

Intel® Core™ i3/i5/i7 mobile processor based Mini-ITX Board with dual Gigabit Ethernet, four SATA III ports, Six COM ports, one PCIe x16 expansion slot and Dual Mini-PCIe slot with mSATA interface

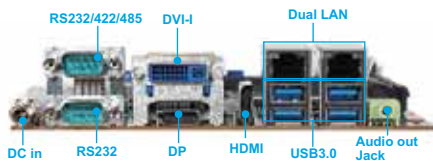


WADE-8022 is based on Intel® QM87 chipset and Mobile processor sku like Core™ i3/i5 and i7(BGA type). WADE-8022 of the Intel platform will provide high performance and flexibility for functional expansion, such as Gaming, Kiosk, DS, Medical, Defense, Industrial automation and control applications.

## FEATURES

- Intel® 4<sup>th</sup> Dual/Quad processor in FCBGA1364
- Intel® QM87 PCH
- Two DDR3L SO-DIMM slots up to 16GB (supports 1600/1333)
- One PCIe x16 slot (Gen3 support)
- Dual Mini-PCIe slot (supports mSATA)
- One PCIe x1 Gold Finger (Two PCIe x1 signal)
- Six COM ports (2pcs on rear I/O, 4pcs on board header)
- Four SATA III Ports (supports RAID 0,1,5,10)
- Total Ten USB ports (4xUSB3.0 Ports & 6xUSB2.0 Ports)

## REAR I/O



## ORDERING GUIDE

|                 |   |
|-----------------|---|
| <b>AB1-3A77</b> | (R).WADE-8022<br>Mini-ITX ESB.Intel® QM87chipset on Board. w/<br>DDR3L SO-DIMM/DVI-I /DP/HDMI/Dual GbE<br>Lan/COM/Audio/USB |
|-----------------|---|

## PACKING LIST

|                           |
|---------------------------|
| One WADE-8022 motherboard |
| One Driver CD             |
| One SATA cable            |

## GENERAL

|                     |   |
|---------------------|---|
| Processor           | - Intel® 4 <sup>th</sup> Dual/Quad processor in FCBGA1364<br>- Cache up to 6MB (for Quad Core)<br>- support Intel® Turbo Boost Technology, Virtualization Technology (VT-x), Hyper-Threading Technology |
| Chipset             | Intel QM87 PCH  |
| BIOS                | AMI UEFI BIOS   |
| Memory              | Support up to 16GB DDR3L 1066/1333 SDRAM on two 204pin SO-DIMM  |
| Storage Devices     | 4x SATA 3.0 support up to 6Gb/s data transfer rate  |
| Watchdog Timer      | Programmable by embedded controller   |
| Expansion Interface | - 1x PCI Express x16 slot (Gen3)<br>- 2x Mini-PCIe slot(switch function)<br>- 1x PCI Express x1 Golden Finger   |

## I/O INTERFACE

|                  |  |
|------------------|--|
| Super I/O        | N/A  |
| Audio            | - Intel® QM87 PCH built in HDA controller<br>- Realtek ALC886-GR HAD codec,5.1 channels                        |
| Ethernet         | Onboard Intel® WGI217LM & WGI210AT   |
| Serial port      | - 1x RS232 port on rear I/O<br>- 1x RS232/422/485 selectable port on rear I/O<br>- 4x RS232 port on pin header |
| USB              | - 6 ports USB2.0<br>- 4 ports USB3.0   |
| Keyboard & Mouse | PS/2 on board dedicated to keyboard & Mouse  |
| GPIO             | 8bit configurable controlled by embedded controller  |

## DISPLAY

|                    |   |
|--------------------|---|
| Graphic Controller | - Intel® HD Graphics 4600 supports DirectX 11, OCL 1.2, OGL 3.2<br>-Video decode hardware acceleration supports for H.264, MPEG2, MVC, VC-1, WMV9 and VP8 formats                     |
| Display Interface  | - DP: resolution up to 2500x1600<br>- VGA: resolution up to 2048x1536<br>- DVI:resolution up to 1920x1200<br>- HDMI: resolution up to 4096x2304<br>- LVDS: resolution up to 1920x1200 |

## Mechanical & Environment

|               |  |
|---------------|--|
| Dimension     | 170mm(L) x 170mm(W) x 1.6mm(H)   |
| Power Supply  | 12V DC input   |
| Environment   | - Operation temperature: 0~60°C<br>- Storage temperature: -20~80°C<br>- Relative humidity: 5~95%, non-condensing |
| Certification | CE,FCC Class A   |
| MTBF          | Over 120,000hrs at 40°C  |

