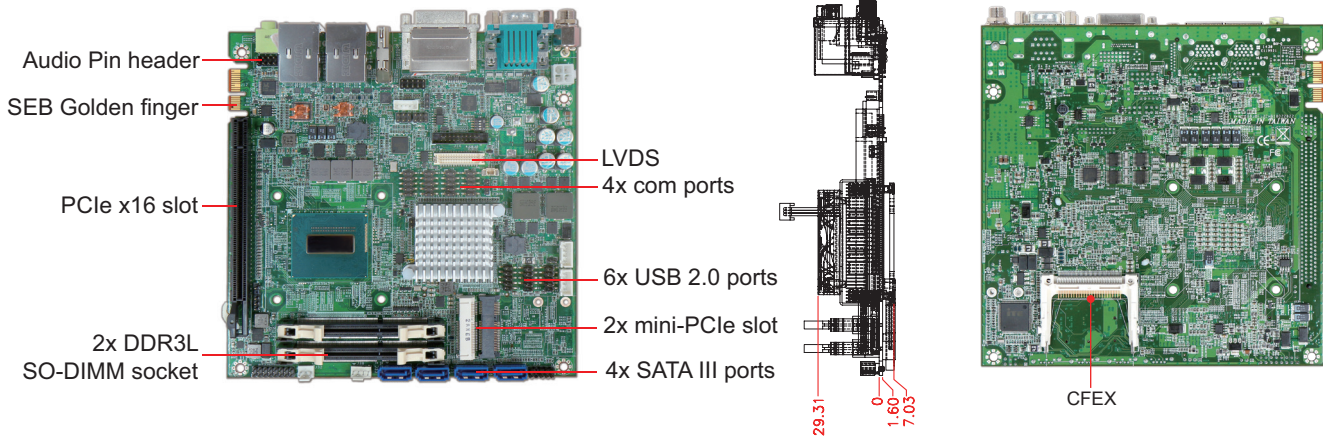


WADE-8022

Intel® Core™ i3/i5/i7 mobile processor based Mini-ITX Board with dual Gigabit Ethernet, 4x SATA III ports, 6x COM ports, 1x PCIe x16 expansion slot and 2x mini-PCle slot with mSATA interface

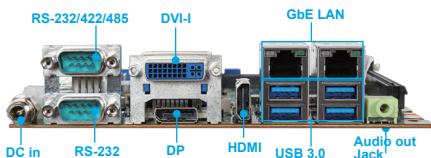


WADE-8022 is based on Intel® QM87 chipset and Mobile processor sku like Core™ i3/i5 and i7(BGA type). WADE-8022 of the Intel® platform will provide high performance and flexibility for functional expansion, such as Gaming, Kiosk, DS, Medical, Defense, Industrial automation and control applications.

FEATURES

- Intel® 4th Dual/Quad processor in FCBGA1364
- Intel® QM87 PCH
- 2x DDR3L SO-DIMM slots up to 16GB (supports 1600/1333 MT/s)
- One PCIe x16 slot (Gen3 support)
- 2x mini-PCle slot (supports mSATA)
- 1x PCIe x1 Gold finger (2x PCIe x1 signal)
- 6x COM ports (2pcs on rear I/O, 4pcs on board header)
- 4x SATA III Ports (supports RAID 0,1,5,10)
- Total 10x USB ports (4x USB 3.0 Ports & 6x USB 2.0 Ports)

REAR I/O



ORDERING GUIDE

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

PACKING LIST

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

GENERAL

| | |
|---------------------|---|
| Processor | - Intel® 4 th Dual/Quad Core™ processor in FCBGA1364 - Cache up to 6MB (for Quad Core) - 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 MT/s SDRAM on 2x 204pin SO-DIMM |
| Storage Devices | 4x SATA III |
| Watchdog Timer | Programmable by embedded controller |
| Expansion Interface | - 1x PCIe 3.0 x16 - 2x mini-PCle slot(switch function) - 1x PCIe x1 Golden finger(Gen2) |

I/O INTERFACE

| | |
|------------------|---|
| Super I/O | N/A |
| Audio | - Intel® QM87 PCH built in HDA controller - Realtek ALC886-GR HAD codec,5.1 channels |
| Ethernet | On board Intel® WGI217LM & WGI210AT |
| Serial port | - 1x RS-232 port on rear I/O - 1x RS-232/422/485 selectable port on rear I/O - 4x RS-232 port on pin header |
| USB | - 6x USB 2.0 ports - 4x USB 3.0 ports |
| Keyboard & Mouse | PS/2 on board dedicated to keyboard & Mouse |
| GPIO | 8-bit configurable controlled by embedded controller |

DISPLAY

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

Mechanical & Environment

| | |
|---------------|---|
| Dimension | 170mm(L) x 170mm(W); 6.69"(L) x 6.69"(W) |
| Power Supply | 12V DC input |
| Environment | - Operation temperature: 0°C~60°C - Storage temperature: -20°C~80°C - Relative humidity: 5%~95%, non-condensing |
| Certification | CE,FCC Class A |
| MTBF | Over 120,000hrs at 40°C |

