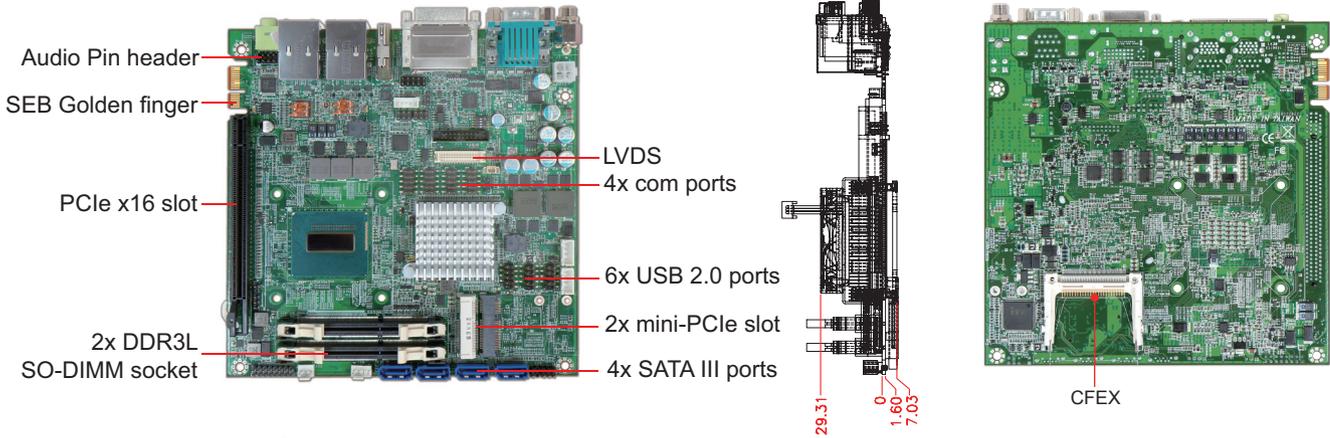


# WADE-8022

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-PCIe slot with mSATA interface

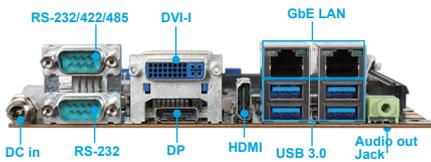


WADE-8022 is based on Intel® QM87 chipset and Mobile processor sku like Core™ i3/i5 and i7(BGA type). WADE-8022 of the Intel® platform will provide high performance and flexibility for functional expansion, such as Gaming, Kiosk, DS, Medical, Defense, Industrial automation and control applications.

## FEATURES

- Intel® 4<sup>th</sup> Dual/Quad processor in FCBGA1364
- Intel® QM87 PCH
- 2x DDR3L SO-DIMM slots up to 16GB (supports 1600/1333 MT/s)
- One PCIe x16 slot (Gen3 support)
- 2x mini-PCIe 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
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## PACKING LIST

One WADE-8022 motherboard
One Driver CD
One SATA cable

## GENERAL

Processor	- Intel® 4 <sup>th</sup> 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-PCIe 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

