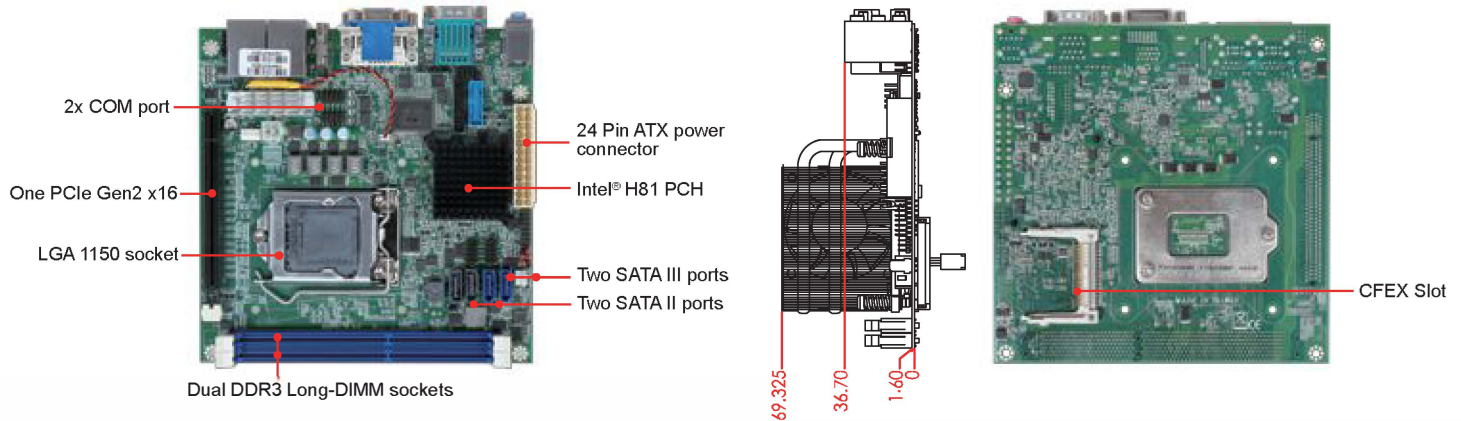# WADE-8016

Intel® 4th Gen Core™ i5/i7 processor based Mini-ITX Board with dual Gigabit Ethernet, two SATA III ports, four COM ports, one PCIe x16 expansion slot and one CFEX
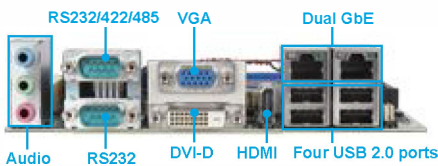

- 2x COM port
- One PCIe Gen2 x16
- LGA 1150 socket
- Dual DDR3 Long-DIMM sockets
- 24 Pin ATX power connector
- Intel® H81 PCH
- Two SATA III ports
- Two SATA II ports
- CFEX Slot

69.325 36.70 1.60

WADE-8016 is based on Intel® H81 chipset and and desktop processor sku like Core™ i7 and i5. WADE-8016 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® i5/i7 4th Dual/Quad processor in LGA 1150
- Intel® H81 PCH
- Two DDR3 Long-DIMM slots up to 16GB (support 1600/1333)
- One PCIe x16 slot (Gen3 support)
- 2 SATA III Ports and 2 SATA II ports(1x SATA II switch CFEX)
- One CFEX
- 4 COM ports (2pcs on rear I/O, 2pcs on board header)
- ■Total Ten USB ports (2xUSB3.0 Ports & 8xUSB2.0 Ports)

REAR I/O

RS232/422/485 | VGA | Dual GbE
Audio | RS232 | DVI-D | HDMI | Four USB 2.0 ports

ORDERING GUIDE

AB1-3B38	(R).WADE-8016
	Mini-ITX ESB.H81 w/o LGA1150.w/DDR3 SDRAM/VGA/DVI/HDMI/Dual GbE/COM/Audio/USB

PACKING LIST

One WADE-8016 motherboard
One Driver CD
One SATA III cable

GENERAL

Processor	- Intel® 4th Gen Core™ i5/i7 processor in LGA-1150 package - Cache up to 6MB (for Quad Core) - support Intel® Turbo Boost Technology , Virtualization Technology (VT-x) ,Hyper-Threading Technology
Chipset	Intel® H81 PCH
BIOS	AMI BIOS
Memory	- Support up to 16GB DDR3 1333/16600 SDRAM on two 240pin DIMM sockets
Storage Devices	- 2x SATA II support up to 3Gb/s data transfer rate - 2x SATA III support up to 6Gb/s data transfer rate - 1x CFEX
Watchdog Timer	Programmable watchdog timer, time out period from 0.5 sec to 255 secs.
Expansion Interface	- 1x PCI Express x16 slot (Gen2)

I/O INTERFACE

Super I/O	Winbond W83627UHG
Audio	- Intel® H81 PCH built in HDA controller - Realtek ALC892 supports 5.1 channels
Ethernet	Two onboard RealTek RTL8111G-CG
Serial Port	- 1x RS232 port on rear I/O - 1x RS232/422/485 selectable port on rear I/O - 2x RS232 on pin header
USB	- 2x USB 3.0 Ports on board - 4x USB 2.0 Ports on rear I/O - 4x USB 2.0 Ports on board
Keyboard & Mouse	- PS/2 on board dedicated to Keyboard & Mouse
GPIO	- On board programmable 8bit Digital I/O

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	- VGA: resolution up to 1920x1200 - DVI: resolution up to 1920x1200 - HDMI: resolution up to 4096x2304

Mechanical & Environment

Dimension	170mm(L) x 170mm(W); 6.69''(L) x 6.69''(W)
Power Supply	ATX 24-pin power input
Environment	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing ; 5~95%, non-condensing
MTBF	Over 120,000 hours at 40°C

DDR 3 | USB 3.0 | SATA 6Gb | HDMI | VGA | Watch DOG | DVI-D | GPIO | Giga LAN | FC CE | Microsoft Windows Embedded Partner | RoHS | Intel IoT Solutions Alliance Premier | CFEX