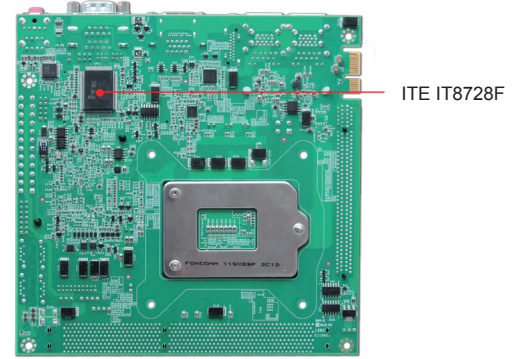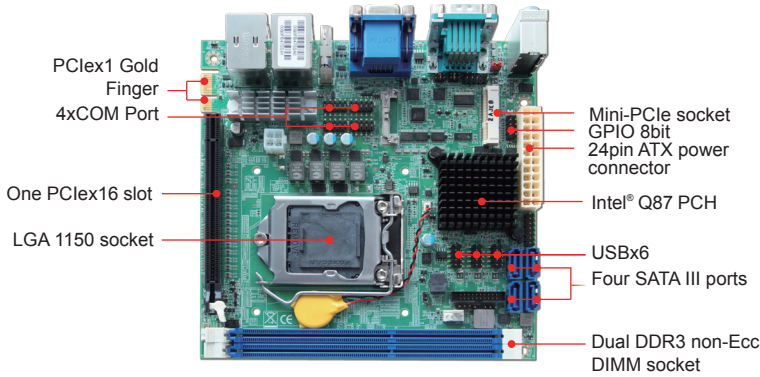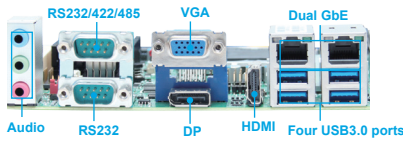# WADE-8015

Intel® Next-Gen Dual/Quad processor based Mini-ITX Board with dual Gigabit Ethernet, four SATA ports, Six COM ports, one PCIe x16 expansion slot and one Mini-PCIe slot support mSATA interface

- PCIex1 Gold Finger
- 4xCOM Port
- One PCIex16 slot
- LGA 1150 socket
- Mini-PCIe socket
- GPIO 8bit
- 24pin ATX power connector
- Intel® Q87 PCH
- USBx6
- Four SATA III ports
- Dual DDR3 non-Ecc DIMM socket

- ITE IT8728F

WADE-8015 is based on Intel Q87 chipset and desktop processor sku like Core™ i7 and i5. WADE-8015 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.

REAR I/O

- RS232/422/485
- VGA
- Dual GbE
- Audio
- RS232
- DP
- HDMI
- Four USB3.0 ports

FEATURES

- Intel® 4th Dual/Quad processor in LGA 1150
- Intel® Q87 PCH
- Two DDR3 Long-DIMM slots up to 16GB(support 1600/1333)
- One PCIe x16 slot (Gen3 support)
- One Mini-PCIe slot (support mSATA)
- One PCIe x1 Gold Finger (2*PCIe x1 signal)
- Audio Jack (support Line-in / Line-out / Mic-in)
- Six COM ports (2pcs on rear I/O , 4pcs on board header)
- Four SATA III Ports (support RAID 0,1,5,10)
- Total Ten USB port (4xUSB3.0 Ports & 6xUSB2.0 Ports)
- Support Triple Display function(DP/VGA/HDMI)

ORDERING GUIDE

AB1-3910	(R).WADE-8015.Mini-ITX ESB.Q87 w/o ECC LGA1150.w/DDR3 SDRAM /VGA/DP/HDMI/Dual GbE/COM/Audio/USB

PACKING LIST

One WADE-8015 Mini-ITX Motherboard
One installation CD
One SATA cable
One I/O shield

GENERAL

Processor	- Intel® Core™ i5/i7 processor in LGA-1150 package - DMI x4 Link: 5.0GT/s - Support Intel® Turbo Boost , Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (depends on CPU sku)
Chipset	- Intel® Q87 PCH
BIOS	- Phoenix UEFI BIOS
Memory	- Support up to 16GB DDR3 1333/1600 SDRAM on two 240-pin DIMM sockets
Storage Devices	- 4x SATA III support up to 6.0 Gb/s data transfer rate
Watchdog Timer	- Programmable via S/W from 0.5 sec. to 254.5 sec.
Hardware Monitoring	- FAN Speed (CPU & System), Temperature (CPU & System) - Beep alarms for field fan out, over/under voltage of DC voltages and over temperature threshold
Expansion Interface	- 1x PCI Express x16 Gen3 up to 8.0 GT/s - 1x Mini-PCIe slot - 1x PCI Express x1 Gold Finger

I/O INTERFACE

Super I/O	- ITE IT8728F
Audio	- Intel® Q87 PCH built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC886-GR HDA codec, 5.1 channels
Ethernet	- Intel® WGI217LM + WGI210AT gigabit ethernet controller - Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet - PCI Express x1 interface based on gigabit ethernet - Dual RJ-45 connector with two LED indicators
Serial Port	- 1x RS232 port on rear I/O - 1x RS232/422/485 selectable port on rear I/O - 3x RS232 with header - 1x RS232/422/485 with header
USB	- 4x USB3.0 Ports on real I/O - 6x USB2.0 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® Core™ i5/i7 processors integrated graphic engine - Provided improved 3D multimedia capabilities including Microsoft DirectX 11.1, Shader Model 4.0, MPEG-2 and OpenGL 3.2
Display Interface	- VGA: one connector DB-15 on rear I/O,analog resolution up to 1920x1200 - DP : one connector on rear I/O,support up to 3200x2000resolution - HDMI : one connector on rear I/O,support up to 4096x2304resolution

Mechanical & Environment

Dimension	-170(L) x 170mm(W); 6.69"(L) x 6.69"(W)
Power Supply	- ATX 24pin power input
Environment	- Operation Temperature: 0~60 °C (with highest performance on 50 °C) - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing
MTBF	Over 120,000 hours at 40°C