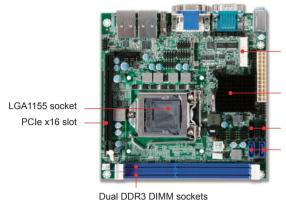
Intel® Next-Gen Dual/Quad processor based Mini-ITX Board with dual Gigabit Ethernet, Four SATA Ports, Six COM Ports, One PCI-Express x16 expansion slot and one Mini-PCle slot support mSATA interface



Mini-PCle x1 slot

Intel® Q77 PCH

Two SATA II ports

Two SATA III ports



ITE IT8728F

WADE-8013 supports the latest 3rd generation Intel[®] Core[™] processor platform in an LGA1155 package, integrated with the memory and PCI Express controller supporting two-channel DDR3 memory and PCI Express 3.0 lanes to provide great graphics performance.

FEATURES

- Intel® next-Gen Dual/Quad processor in LGA1155 package
- Intel® Q77 Chipset
- Two 240-pin Long-DIMM supports DDR3 SDRAM up to 16GB
- Dual display: VGA/DVI/HDMI
- One PCI Express x16 expansion slot
- Four SATA ports (2x SATA II, 2x SATA III)
- Six COM ports
- One Mini-PCIe slot supports mSATA interface

REAR I/O



ORDERING GUIDE

AB1-3709 (R).WADE-8013.Mini-ITX ESB.Q77 w/o ECC PGA1155.w/DDR3 SDRAM /VGA/DVI-D/HDMI/Dual GbE/COM/Audio/USB 3.0

PACKING LIST

| One WADE-8013 Mini-ITX Main Board | |
|-----------------------------------|--|
| One Installation CD | |
| One SATA Cable | |
| One I/O shield | |





















- Intel® Dual Core™/Quad Core™ processor in LGA1155 package processor

- FSB: 667/800/1066MHz

- Supports Intel® Hyper-Threading Technology, Intel® Virtualization Technology (VT-x), Intel® Advanced Vector Extensions (AVX)

Chipset - Intel® Q77 PCH

BIOS - Phoenix BIOS (SPI ROM)

- Supports dual channel up to 16GB DDR3 1333/1600 MT/s SDRAM on Memory

two 240-pin and sockets

Storage Devices 2x SATA II supporting up to 3.0Gb/s data transfer rate

2x SATA III supporting up to 6.0Gb/s data transfer rate - Programmable via S/W from 1 sec. to 255 min.

Watchdog Timer 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 Expressx16 slot (Gen 3, 8.0GT/s) (support PCIe x1, x4, x8, x16 mode)

- 1x Mini-PCIe slot

I/O INTERFACE

Super I/O - ITE IT8728F

Audio - Intel® Q77 built-in High Definition Audio up to 96-kHz 24-bit

- Realtek ALC886-GR, 7.1+2 channel

- Audio Jack DIP Light Pink/Lime/Light Blue

Ethernet - Intel® 82583V support iAMT 8.0 and Intel® 82574L Dual Gigabit Ethernet controllers

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 USB 3.0 ports on rear I/O - 6x USB 2.0 ports on borad with two headers

- For USB 2.0: 480 Mb/s bus comprehends the high-speed/full-speed/low-

speed data ranges

For USB 3.0: 5Gbps bus comprehends the high-speed/full-speed/lowspeed data ranges

- 1x PS/2 Keyboard & Mouse on board Keyboard & Mouse

GPIO - On board programmable 16-bit Digital I/Os

DISPLAY

Graphic Controller - Intel® Q77 Integrated 3D GMA support DX10.1, OpenGL 3.0, MPEG-2, Shader Model 4.0 - VGA: One connector DB-15 on rear I/O, analog resolution up to 2048x1536 Display Interface

- HDMI: One connector on rear I/O, support up to 1920x1200 resolution

- DVI-D: One connector on rear I/O, Digital DVI resolution up to 1920x1200

Mechanical & Environment

Dimension - 170(L) x 170(W) mm; 6.69"(L) x 6.69"(W)

Power Supply - ATX 24-pin power input

Environment - Operation Temperature: 0°C to 60°C

- Storage temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing

MTBF - Over 100,000 hours at 40°C