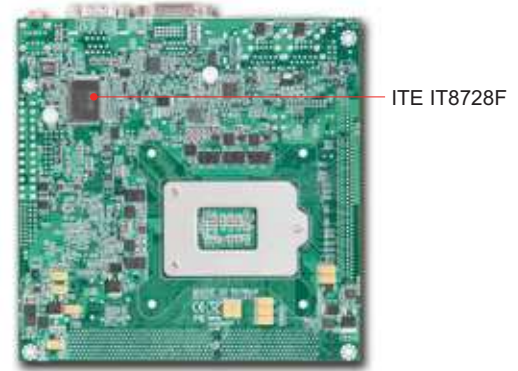# WADE-8012
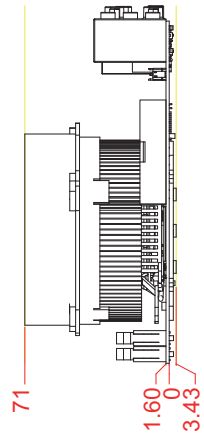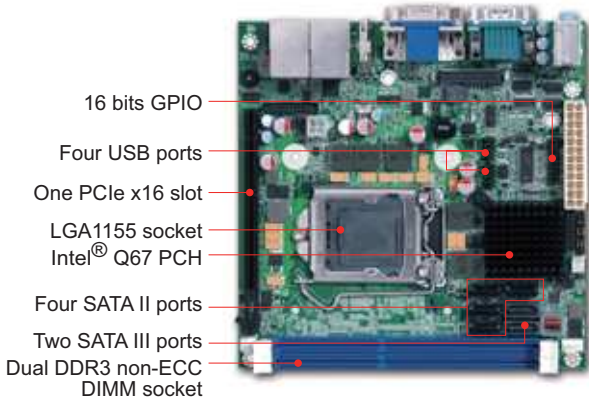
Intel® Core™ i5/ i7 processor based Mini-ITX with dual displays, DDR3 SDRAM, Two COM Ports and Eight USB Ports

- 16 bits GPIO
- Four USB ports
- One PCIe x16 slot
- LGA1155 socket
- Intel® Q67 PCH
- Four SATA II ports
- Two SATA III ports
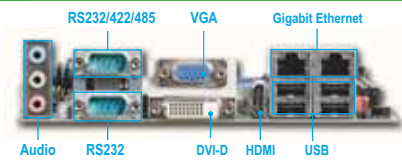- Dual DDR3 non-ECC DIMM socket

- ITE IT8728F

71
1.60
3.43

Equipped with second generation Intel® Core™ i5/i7 processors in the LGA1155 socket, Portwell's WADE-8012 Mini-ITX offers superior performance in a small package and is suitable for diverse applications such as Panel PC, Lottery, Medical, Gaming and Digital Signage.

FEATURES

- Intel® Core™ i5/i7 in LGA1155 socket
- Intel® Q67 PCH
- Two 240pin DIMM sockets support Dual channel DDR3 SDRAM up to 8GB
- Dual Display by VGA/DVI/HDMI
- Intel® Active Management Technology (Intel® AMT 7.0)
- Supports Six SATA ports (SATA II x4, SATA III x2), Eight USB ports
- RAID 0,1,5,10

REAR I/O

RS232/422/485   VGA   Gigabit Ethernet

Audio   RS232   DVI-D   HDMI   USB

ORDERING GUIDE

| AB1-3644 | WADE-8012.Mini-ITX ESB.Q67 w/ECC PGA1155.w/DDR3 SDRAM /VGA/DVI-D/HDMI/ Dual GbE/COM/Audio/USB |

PACKING LIST

| One WADE-8012 Mini-ITX Main Board |
| One Installation CD |
| One SATA Cable |
| One I/O shield |

GENERAL

Processor	- Intel® Core™ i5/i7 processor up to 3.4GHz (65~95W) with (3~8MB) Cache in LGA1155 package - Supports Intel® Hyper-Threading Technology, Intel® Virtualization Technology (VT-x), Intel® Trusted Execution Technology, Enhanced Intel SpeedStep® Technology
Chipset	Intel® BD82Q67 PCH
BIOS	AMI UEFI BIOS
Memory	Supports dual channel up to 16GB DDR3 1333/1066 MT/s SDRAM on two 240-pin non-ECC socket
Storage Devices	- 4x SATA support up to 3.0Gb/s data transfer rate - 2x SATA support up to 6.0Gb/s data transfer rate
Watchdog Timer	Programmable via S/W from 0.5 sec. to 255 min.
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

I/O INTERFACE

Super I/O	ITE IT8728F
Audio	- Intel® Q67 built-in High Definition Audio up to 96-kHz 24-bit - Realtek ALC662-GR, 5.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	Intel® 82579LM supports iAMT 7.0 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
USB	- 4x USB 2.0 ports on rear I/O - 4x USB 2.0 ports on board with two headers - 480 Mb/s bus capable of high-speed/full-speed/low-speed data ranges

DISPLAY

Graphic Controller	Intel® Q67 Integrated 3D GMA supports DX10.1, OpenGL 3.0, MPEG-2, Shader Model 4.0
Display Interface	- VGA: One connector DB-15 on rear I/O, analog resolution up to 2048x1536 (QXGA) - HDMI: One connector on rear I/O, supports up to 1920 x 1200 resolution - SDVO: One on-board connector (PCIe x1 & USB x1 signals) - DVI-D: One connector on rear I/O, Digital DVI resolution up to 1920x1200 (WUXGA)

Mechanical & Environment

Dimension	170(L) x 170(W)mm; 6.69"(L) x 6.69"(W)
Power Supply	-Typical: +12V(CPU)@3.81A;+12V(System)@2.21A;+5V@2.3A;+3.3V@1.15A -Supports ATX mode
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