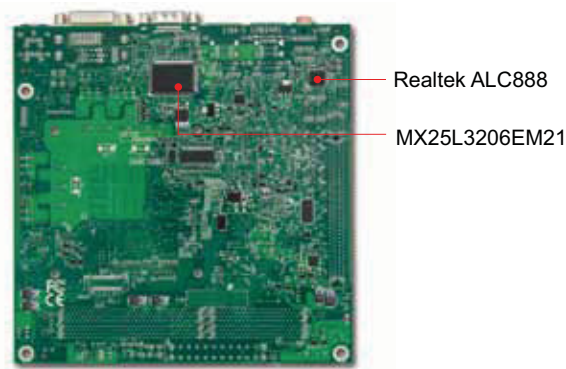
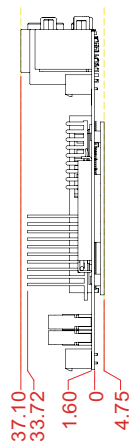
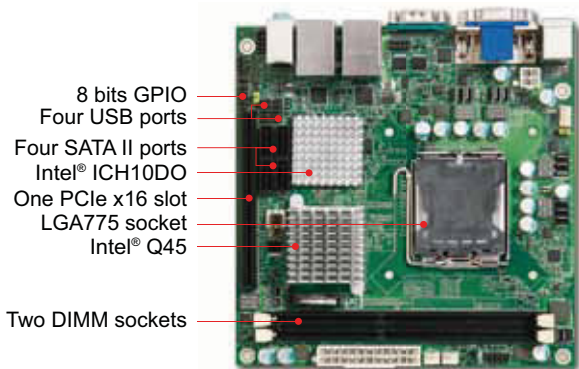




WADE-8180

Leading Intel® Core™ 2 Quad/Core™ 2 Duo processor based Mini-ITX embedded board with Dual Display, Dual Gigabit Ethernet, SATA, COM and USB

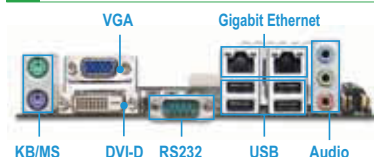


WADE-8180 offers the availability of an extra graphics card which enables powerful graphic processing ability. In addition, the VGA and DVI-D dual video outputs can drive two displays simultaneously which is ideal for gaming applications. With dual GbE LAN, four SATA, dual COM and eight USB I/O functions, WADE-8180 is the best solution for multiple applications such as Automation, Multi-media and KIOSK.

FEATURES

- Intel® Core™ 2 Quad/Core™ 2 Duo processor Intel® Q45 Express and ICH10DO chipset
- Two 240-pin DIMM sockets support dual channel DDR3 SDRAM up to 4GB
- Dual display: VGA/DVI-D, 3rd display via PCI-Express x16 slot
- Four SATA ports
- Two GbE LAN ports and One PCIe x16 slot
- RAID 0,1,5,10
- TPM 1.2 and iAMT 5.0 supported

REAR I/O



ORDERING GUIDE

AB1-3255	WADE-8180.Mini-ITX ESB. Intel Core 2 Quad/ Core 2 Duo. w/DDR3 SDRAM /VGA/DVI-D/Dual GbE/Audio
AA1-3052	PER-4410R.PCI-E x 16 to PCI-E x 16 Riser Card

PACKING LIST

One WADE-8180 Mini-ITX Main Board
One Installation CD
One SATA Cable
One I/O shield
One USB Cable
CPU Fan

GENERAL

Processor	- Intel® Core™ 2 Quad/Intel® Core™ 2 Duo processor up to 2.66 GHz (95W) with 6MB L2 Cache in LGA775 package - FSB 1333/1066/800 MHz - Supports Enhanced Intel SpeedStep® Technology, Intel® 64 architecture, Execute Disable Bit
Chipset	Intel® Q45 Graphics and Memory Controller Hub (17W) and ICH10DO
BIOS	AMI Core 8 BIOS
Memory	Supports dual channel up to 4GB DDR3 1066/800 MT/s SDRAM on two 240-pin DIMM socket
Storage Devices	4x SATA support up to 3.0Gb/s data transfer rate
Watchdog Timer	Programmable via S/W from 1 sec. to 255 min.
Hardware Monitoring	FAN Speed (CPU & System), Temperature (CPU & System), Voltage
Expansion Interface	1x PCI Express x16 (Gen 1, 2.5 GT/s) (Compatible to the PCI Express* Base Specification revision 2.0)

I/O INTERFACE

Super I/O	MXIC MX25L3206EM21
Audio	- Intel® Q45 built-in High Definition Audio up to 192-kHz 24-bit - Realtek ALC888, 5.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	Intel® 82576LM and Intel® 82574L Dual Gigabit Ethernet controllers
Serial Port	- 1x RS232 on rear I/O - 1x RS232 on board pin header
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
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on rear I/O
GPIO	On board programmable 8-bit Digital I/Os

DISPLAY

Graphic Controller	- Intel® Q45 Express integrated GMA 4500 Graphics device supports full hardware acceleration MPEG-2, DirectX 10 - Intel® Dynamic Video Memory Technology (Intel® DVMT 5.0)
Display Interface	- VGA: Analog resolution up to 2048x1536 (QXGA) - DVI: Digital DVI resolution up to: 2560x1600 @60Hz

Mechanical & Environment

Dimension	170(L) x 170(W)mm; 6.69"(L) x 6.69"(W)
Power Supply	-Typical: +12V(CPU)@9.25A; +12V@2.8A; +5V@6.72A; +3.3V@10.54A -Supports ATX mode
Environment	- Operation Temperature: 0°C to 60°C - Relative Humidity: 5% to 95%, non-condensing
MTBF	Over 100,000 hours at 40°C

