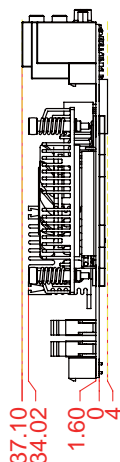
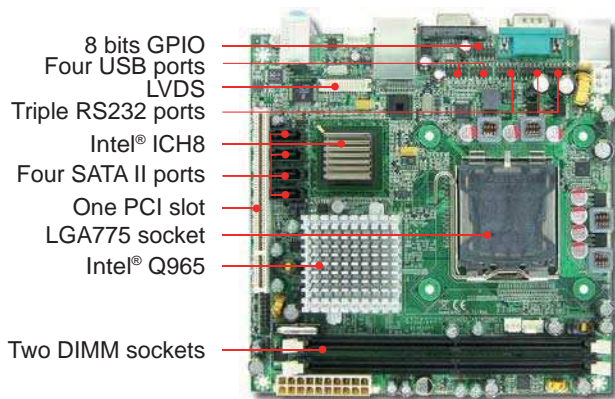


# WADE-8056

Leading Intel® Core™ 2 Quad processor based Mini-ITX Board with Dual Displays and One GbE

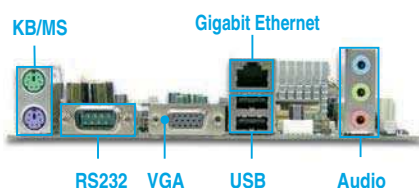


The WADE-8056 is an advanced mini-ITX embedded system board that takes advantage of Intel® Core™ 2 Duo technologies. With its GPIO, WADE-8056 offers robust computing power and reliability for embedded applications that need a digital control interface. Dual video outputs can drive two displays simultaneously at a high speed, while maintaining superior image quality. The expansion slots provide the highly flexibility necessary for functional expansion.

## FEATURES

- Intel® Core™ 2 Quad processor
- Intel® Q965 GMCH and ICH8DO Chipset
- Max. 4GB memory, DDR2 SDRAM
- Dual Display by VGA/LVDS
- One GbE LAN port and one PCI slot
- Max. four COM and six USB 2.0 ports
- RAID 0, 1, 5, 10

## REAR I/O



## ORDERING GUIDE

AB1-3078	WADE-8056 Mini-ITX ESB Intel P4-Dual Core w/ DDR SDRAM/VGA/LVDS/Dual Display/GbE/Audio
AA1-3027	PEP-581R. 1 Slot Riser Card for Right Expansion. 1xPCI.

## PACKING LIST

One WADE-8056 Mini-ITX Main Board
One Installation CD
One SATA Cable
One I/O shield
COM Cable

## GENERAL

processor	- Intel® Core™ 2 Duo/Core™ 2 Quad/Celeron® D/Pentium® 4 processor up to 3 GHz (65W) with 6MB L2 Cache in LGA775 package - FSB 1066/800/533 MHz - Supports Enhanced Intel SpeedStep® Technology, Intel® 64 architecture, Execute Disable Bit
Chipset	Intel® 82Q965 Graphics and Memory Controller (28W) and ICH8DO
BIOS	Award BIOS
Memory	Supports dual channel up to 4GB DDR2 800/667/533 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 Slot (Supports PCI Rev 2.3 specification at 33 MHz) - 1x Mini-PCI socket (Supports PCI Rev 2.3 specification at 33 MHz)

## I/O INTERFACE

Super I/O	Winbond W83627HG
Audio	- Intel® Q965 built-in High Definition Audio up to 192-kHz 32-bit - Realtek ALC262-VC2-GR, 2.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	Intel® 82566DM Gigabit Ethernet controller
Serial Port	- 1x RS232 port on rear I/O - 3x RS232 on board pin header
USB	- 2x 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® Q965 Express integrated GMA 3000 Graphics device support hardware acceleration MC, DirectX 9.0c - Intel® Dynamic Video Memory Technology (Intel® DVMT 4.0)
Display Interface	- VGA: Analog resolution up to 2048x1536 (QXGA) - LVDS: Digital LVDS resolution up to 1920x1200 (UXGA)

## Mechanical & Environment

Dimension	170(L) x 170(W)mm; 6.69"(L) x 6.69"(W)
Power Supply	- Typical: +12V(CPU)@2.8A; +12V(System)@0.7A; +5V@5.1A; +3.3V@4.4A - Supports ATX mode
Environment	- Operation Temperature: 0°C to 55°C - Relative Humidity: 0% to 90%, non-condensing
MTBF	Over 100,000 hours at 40°C

