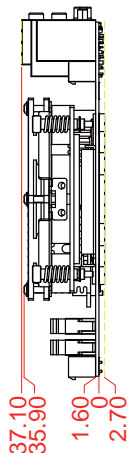
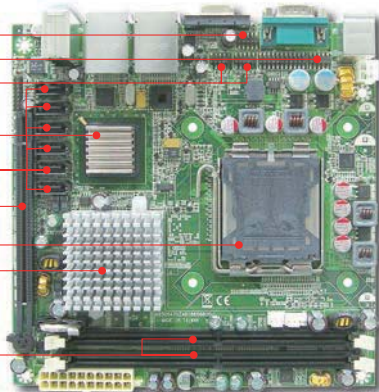


WADE-8656

Leading Intel® Core™ 2 Quad processor based Mini-ITX Board with PCIe expansion and Two GbE

- 8 bits GPIO
- One RS232 port
- Four USB ports
- Intel® ICH8
- Six SATA II ports
- One PCIe x16 slot
- LGA775 socket
- Intel® Q965
- Two DIMM sockets



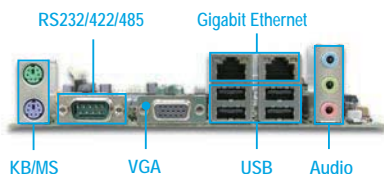
Winbond
W83772G

WADE-8656 is an advanced mini-ITX embedded system board that takes advantage of Intel® Core™ 2 Quad technologies. With its PCIe x16 slot, WADE-8656 provides an extra graphic card which can offer powerful graphic processing ability suitable for gaming applications. Six SATA Ports enrich the system capacity, especially suitable for storage usage. Two Gigabit Ethernet ports provide high performance for networking transmission.

FEATURES

- Intel® Core™ 2 Quad processor
- Intel® Q965 GMCH and ICH8DO chipset
- Six SATA ports support
- Two GbE LAN ports, one PCIe x16 slot
- Max. two COM and eight USB 2.0 ports
- RAID 0, 1, 5, 10

REAR I/O



ORDERING GUIDE

AB1-3093	WADE-8656.Mini-ITX ESB.Intel P4-Dual Core.w/ DDR SDRAM/VGA/PCI-E expansion/Dual GbE/Audio
AA1-3052	PER-4410R.PCI-E x 16 to PCI-E x 16 Riser Card

PACKING LIST

One WADE-8656 Mini-ITX Main Board
One Installation CD
One SATA Cable
One I/O shield
USB Cable
COM Cable

GENERAL

processor	- Intel® Core™ 2 Duo/Core™ 2 Quad/Pentium® 4/Celeron® D 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	6x 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 1.1a)

I/O INTERFACE

Super I/O	Winbond W83772G
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 - Realtek 8111B Gigabit LAN
Serial Port	- 1x RS232 port on board head - 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
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® DVM T 4.0)
Display Interface	VGA: Analog resolution up to 2048x1536 (QXGA)

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

