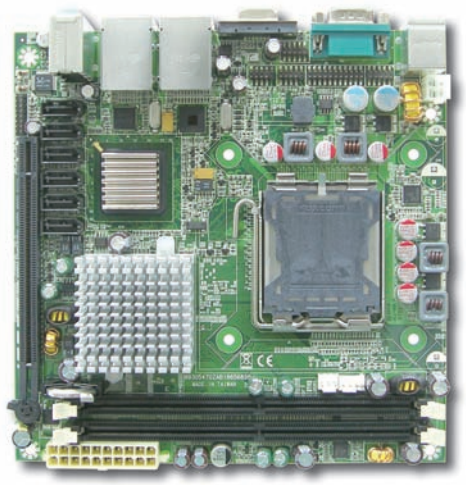
WADE-8656

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



FEATURES

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

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

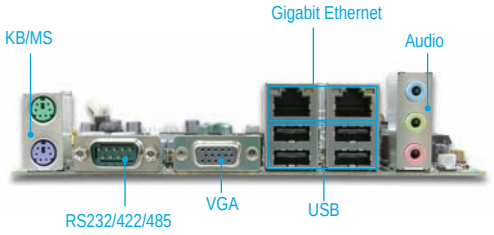
SYSTEM	
CPU	Intel® Core™ 2 Quad / Core™ 2 Duo and Pentium® 4 / Celeron® D processor
FSB	FSB 1066/800/533 MHz
BIOS	Award BIOS
System Chipset	Intel® Q965 GMCH & 82801HB ICH8DO
System Memory	2 x 240-pin dual channel DDR2 SDRAM DIMM 533/667/800 MHz supports up to 4GB
Storage	6 x Serial ATA connector high-speed data transfers at up to 3 Gb/s
Watchdog Timer	Reset; 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
GPIO	On-board programmable 8-bit Digital I/O interface
Expansion	One PCI-E x16 slot

I/O	
MIO	1 x RS232, 1 x RS232/422/485 selectable, 1 x K/B, 1 x Mouse, 2 x GbE
IrDA	N/A
USB	4 x USB 2.0 ports and 4 x USB 2.0 with header
Audio Interface	Mic in, Line in, Line out
Ethernet Interface	IEEE 802.3 10/100/1000BASE-T Gigabit Ethernet compliant (Intel® 82566DM, Realtek 8111B)

DISPLAY	
Chipset	Intel® Q965 GMCH Integrated GMA 3000 Graphics device
Display Memory	Intel® DVMT 4.0 supports up to 384 MB video memory
Resolution	Analog Display: Up to 2048 x 1536 (QXGA)
LVDS	N/A

MECHANICAL & ENVIRONMENTAL	
Power Requirement	+5V @ 5.1A; +12V(CPU) @ 2.8A; +12V(system) @ 0.7A; +3.3V @ 4.4A
Operating Temperature	0~55°C
Operating Humidity	0%~90% relative humidity, noncondensing
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
Weight	0.94 lbs (0.43 Kg)

REAR I/O



ORDERING GUIDE

- **WADE-8656**
  Intel® Core™ 2 Quad / Core™ 2 Duo and Pentium® 4 / Celeron® D processors Main Board with VGA, Audio, GbE LANs, 8 USB 2.0
- **EZCool**
  Compact 1U active heatsink suitable for Intel Core 2 Duo processor (blow 65W)
- **PER-4410R**
  One slot PCI-E x16 riser card