

## FEATURES

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

The WADE-8056 is an advanced mini-ITX embedded system board (ESB) 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, based on PCI technologies and support up to two PCI slots, which provide the highly flexibility necessary for functional expansion.

### 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 4 GB                               |
| Storage            | 4 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          | 1 x PCI slot; 1 x Mini-PCI   |

### I/O

|                    |   |
|--------------------|---|
| MIO                | 4 x RS-232, 1 x K/B, 1 x Mouse, 1 x GbE                 |
| IrDA               | N/A   |
| USB                | 2 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 |

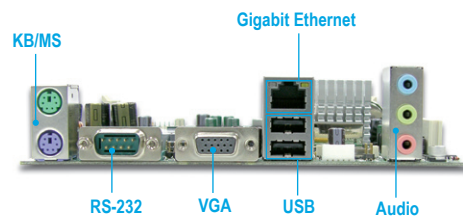
### DISPLAY

|                |  |
|----------------|--|
| 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)<br>Digital LVDS Display: Up to 2048 x 1536 (QXGA) |
| LVDS           | Dual Channel 24-bit  |

### 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-8056**  
Intel® Core™ 2 Quad / Core™ 2 Duo and Pentium® 4 / Celeron® D processors  
Main Board with VGA, Audio, GbE LANs, 6 USB 2.0
- **EZCool**  
Compact 1U active heatsink suitable for Intel® Core™ 2 Duo processor (blow 65W)
- **PEP-581R/582R**  
One/Two slots PCI riser card
- **PEP-582L**  
Two slots PCI riser card