WADE-8056

Leading Intel® Core 2 Duo/ Core 2 Quad processor based Mini-ITX Board with Dual Display and One GbE

FEATURES

- Intel® Core™ 2 Duo/ 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
- Support Intel®Active Management Technology 2.0

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-8065 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 Duo/ Core 2 Quad and Pentium® 4 / Celeron® D
FSB	FSB 1066/800/533 MHz
BIOS/AMT	Award BIOS / Intel® Active Management Technology (AMT 2.0)
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 temprature, 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

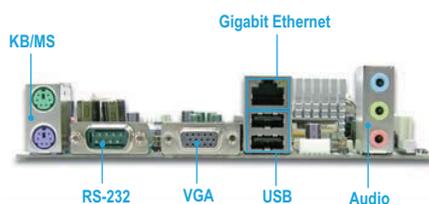|	
MIO	4 x RS-232, 1 x K/B, 1 x Mouse, 1 x GbE
IrDA	N/A
USB	2 x USB 2.0 ports and 4 x USB 2.0 with header
Audio Interface	Mic in, Line in, Line out
Ethernet Interface	IEEE 802.3 10/100/1000BASE-T Gigabit Ethernet compliant

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 Port : QXGA 2048 x 1536@75HzLCD/Digital Display : Flat panels up to 2048x1536@60 Hz or digital CRT/ HDTV at 1920x1080@85Hz
VGA/LCD Interface	Intel® Graphics Gen4 Media Accelerator GMA 3000, and supports widescreen LCD displays and accelerated DirectX* 9.0c
LVDS	1 x 24-bit

MECHANICAL & ENVIRONMENTAL

Power Requirment	TBD
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® LGA775 Intel® Core™ 2 Duo Core™ 2 Quad and Pentium® 4 / Celeron® D processors Main Board with VGA, Audio, Dual GbE LANs, 6 USB 2.0

- **1U Heat Sink**
  Copper made heat sink to expire the system heat with 40 CFM fans

- **PEP-571R/572R**
  One/Two slots riser card

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