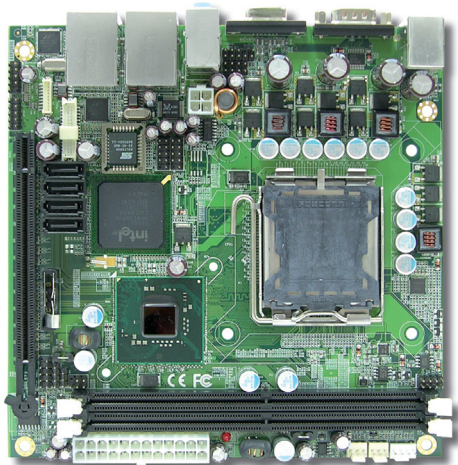# WADE-8156

Advanced Intel® Core 2 Duo LGA775 based Mini-ITX Board with Two Video Outputs and Two GbE LANs

Feature

- Intel® Core™ 2 Duo (Conroe) processors
- Intel® Q965 GMCH Chipset
- Max. 4GB memory, two-channel DDR2
- Two video outputs by VGA/DVI, VGA/LVDS, and LVDS/DVI On-board 5.1 CH Audio
- On-board 5.1 CH Audio
- Two GbE LAN ports and one PCI Express x16 slot
- Max. two COM and eight USB 2.0 ports

The WADE-8156 includes the latest Intel® Q965 GMCH chipset. It is designed to operate with the latest Intel Core 2 Duo microprocessors. Working with Intel®'s latest multi-core technologies, WADE-8156 not only increases computing power, but also reduces power consumption in applications. The graphic media accelerator x3000 provides both fast video response time and high quality images via the two-channel memory architecture. One PCI-Express x16 expansion slot provides the high bandwidth necessary to expand the system functions.

Specification

System

CPU	Intel® LGA775 Core 2 Duo and Pentium® 4 / Celeron® D processors (E6000, 600, 500, 300 series)
FSB	FSB 1066/800/533 MHz
BIOS	Award BIOS with 8Mb Flash ROM
System Chipset	Intel® Q965 GMCH & 82801HB ICH8
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
RAID	Optional ICH8R supports RAID 0, 1, 5, 10 function
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 Express x16 Interface

I/O

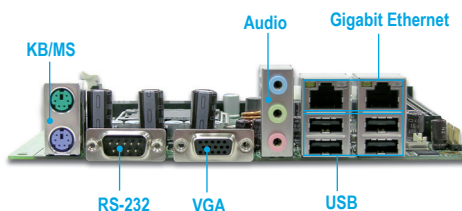|	
MIO	2 x RS-232, 1 x K/B, 1 x Mouse, 2 x GbE
IrDA	IrDA 1.0
USB	4 x USB 2.0 ports and 4 x USB 2.0 with header
Audio Codec	HDAC codec with Realtek ALC883 7.1 +2CH 3D audio interface
Audio Interface	Mic in, Line in, CD Audio in, Line out, Rear out and Center/ Subwoofer out
Ethernet Interface	IEEE 802.3 10/100/1000BASE-T Gigabit Ethernet compliant

Display

Chipset	Intel® Q965 GMCH Integrated GMA X3000 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 X3000, and supports widescreen LCD displays and accelerated DirectX* 9.0c
LVDS	Optional Chrontel CH7308 LVDS transmitter

Mechanical & Environmental

Power Requirment	TBD
Operating Temperature	0~60°C (32~140°F)
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 Information

- **WADE-8156**
  Intel® LGA775 Intel® Core™ 2 Duo and Pentium® 4 / Celeron® D processors Main Board with VGA, Audio, Dual GbE LANs, 8 USB 2.0