

# WADE-8180

Leading Intel® Core™ 2 Quad / Core™ 2 Duo Processor based Mini-ITX embedded board with Dual Display, Dual Gigabit Ethernet, SATA, COM and USB



## FEATURES

- Intel® Core™ 2 Quad / Core™ 2 Duo processor
- Intel® Q45 Express and ICH10DO chipset
- Two 240-pin DIMM sockets support dual channel DDR3 SDRAM up to 4GB
- Dual display: VGA / DVI-D, 3rd display via PCI-Express x16 slot
- Four SATA ports
- Two GbE LAN ports and One PCI-E x16 slot
- RAID 0 / 1 / 5 / 10
- TPM 1.2 and iAMT 5.0 supported

Built with Intel® latest Q45 chipset, WADE-8180 takes advantage of Intel® Core 2 Quad & Core 2 Duo technologies. With its PCI-E x16 slot, WADE-8180 offers the availability of extra graphic card which can offer powerful graphic processing ability. In addition, the VGA and DVI-D dual video outputs can drive two displays

simultaneously that suitable for gaming application. With dual GbE LAN, four SATA, dual COM and eight USB I/O function, WADE-8180 can be the best solution for multiple applications such as automation, multi-media and KIOSK.

### SYSTEM

|                |  |
|----------------|--|
| CPU            | Intel® Core™ 2 Quad / Core™ 2 Duo processor                                    |
| FSB            | 1333/1066/800 MHz  |
| BIOS           | AMI BIOS   |
| Chipset        | Intel® Q45 Express and ICH10DO chipset   |
| System Memory  | Two 240-pin DIMM sockets support dual channel 800/1066MHz DDR3 SDRAM up to 4GB |
| Storage        | 4 x SATA-300   |
| Watchdog Timer | Reset; 1 sec.~255 min. and 1 sec. or 1 min./step                               |
| H/W Monitor    | Monitoring CPU and system temperature, voltage and cooling fan status          |
| GPIO           | Onboard programmable 8-bit Digital I/O interface (4 input / 4 output)          |
| Expansion      | One PCI-Express x16 Slot   |

### I/O

|                    |   |
|--------------------|---|
| MIO                | 1 x D-SUB 15-pin & 1 x D-SUB 24-pin connector, 2 x RS232 ports, 1 x K/B & Mouse |
| IrDA               | N/A   |
| USB                | 4 x USB 2.0 ports and 4 x USB 2.0 ports with header                             |
| Audio Interface    | Line out, Line-in and Mic-in  |
| Ethernet Interface | IEEE 802.3 10/100/1000BASE-T Gigabit Ethernet compliant                         |

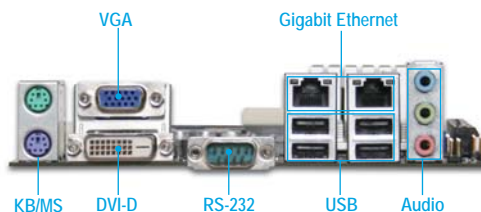
### DISPLAY

|                |   |
|----------------|---|
| Chipset        | Intel® Q45 Integrated Intel® Gen 5.0 GMA 4500 Graphics  |
| Display Memory | Intel® Dynamic Video Memory Technology (Intel® DVM 5.0) |
| Resolution     | Up to 2048 x1536 @ 75 Hz (QXGA)                         |
| DVI            | DVI-D interface   |

### MECHANICAL & ENVIRONMENTAL

|                       |                               |
|-----------------------|-------------------------------|
| Power Requirement     | TBD                           |
| Operating Temperature | 0~60°C                        |
| Operating Humidity    | 10%~90% non-condensing        |
| Dimension             | 6.69" x 6.69" (170mm x 170mm) |

### REAR I/O



### ORDERING GUIDE

#### ■ WADE-8180

Intel® Core™ 2 Quad / Core™ 2 Duo processor Mini-ITX Motherboard

- \* Specifications are subject to change without notice.
- \* Core™ 2 Quad and Core™ 2 Duo processor are registered trademarks of Intel® Corporation.
- \* Other trademarks, logo, brands and company names are the property of their respective owners.



#### Portwell, Inc. (Headquarters)

4F, No. 186, Jian-Yi Rd., Chung-Ho City, 235 Taipei, Taiwan  
Tel: +886-2-77318888  
Tel: +886-2-82271109  
Fax: +886-2-82271109  
E-mail: info@portwell.com.tw  
http://www.portwell.com.tw

#### American Portwell

Fremont Tel: +1-510-403-3399  
Norcross Tel: +1-510-403-3399  
E-mail: info@portwell.com  
http://www.portwell.com

#### Portwell Japan, Inc.

Tokyo Tel: +81-3-5298-8071  
E-mail: info@portwell.co.jp  
http://www.portwell.co.jp

#### Beijing Portwell

Beijing Tel: +86-10-82701616  
Shanghai Tel: +86-21-3222-0505  
Shenzhen Tel: +86-755-8621-7695  
E-mail: info@portwell.com.cn  
http://www.portwell.com.cn

#### Portwell-Laxsons India

Tel: +91-22-2685-5011  
E-mail: info@portwell.com  
http://www.portwellmaxsons.com

#### Portwell, B.V.

Tel: +31-252-620790  
E-mail: info@portwell.nl  
http://www.portwell.nl

#### Portwell (UK) Ltd.

Tel: +44(0)1235-750760  
E-mail: info@portwell.co.uk  
http://www.portwell.co.uk

www.ipc2u.ru www.ipc2u.de www.sovic.com Date: 01/07/2016