

WADE-8170

Intel® Atom™ N270 Processor based Mini-ITX Board with Dual Display, Dual Gigabit Ethernet, Two SATA Ports, Two COM ports and Eight USB Ports



FEATURES

- Intel® ATOM™ N270 1.6GHz processor
- Intel® 945GSE and ICH7-M chipset
- 12V-24V DC Power Input
- One 200-pin SO-DIMM supports single channel DDR2 SDRAM up to 1GB
- Dual display: VGA / LVDS / DVI, 3rd display via PCI or PCI-Express expansion slot
- One PCI and one PCI-Express x1 expansion slot
- Two SATA, one Compact Flash socket & one IDE connector

Built with Intel® mobile 945GSE chipset, WADE-8170 takes advantage of Intel® Atom™ N270 technologies. WADE-8170 features with its low power and also can provide multiple displays such as LVDS, VGA, TV-out and DVI. In addition, WADE-8170 has one SO-DIMM socket which supports DDR2

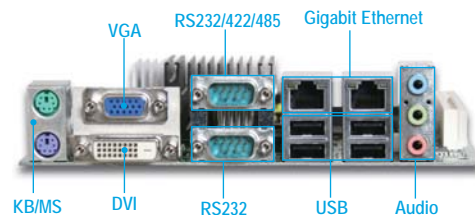
SDRAM, dual Gigabit Ethernet, two RS232 serial ports, two SATA, one PCI slot and one PCI-Express x1 expansion slot. Base on 12V-24V DC power input design, WADE-8170 can be best solution for POS, Medical, Gaming and Digital Signage applications.

SYSTEM	
CPU	Intel® ATOM™ N270 1.6GHz processor
FSB	533MHz
BIOS	Award BIOS
System Chipset	Intel® 945GSE GMCH and ICH7-M
System Memory	One 200-pin SO-DIMM supports single channel DDR2 SDRAM up to 1GB
Storage	- 2 x SATA - 1 x 40 pin IDE
SSD	1 x Compact Flash share the same channel with IDE and support UDMA
Watchdog Timer	Programmable via S/W from 1sec. to 255min.
H/W Monitor	FAN Speed(CPU and System), Temperature(CPU and System), Voltage, Case open function
GPIO	Onboard programmable 8-bit Digital I/Os
Expansion	1 x PCI slot, 1 x PCI-Ex1 slot through Riser card

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)

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

REAR I/O



DISPLAY	
Chipset	Intel® 945GSE GMCH Integrated Intel® GMA 950 graphics
Graphic Memory	Intel® DVMT 3.0 share system memory up to 128MB
Resolution	- Analog Display: Up to 2048 x 1536 (QXGA) - Digital LVDS: Up to 1600 x 1200(UXGA) - Digital DVI: Up to 1600 x 1200(UXGA)
LVDS	Dual Channel 18-bit
DVI	DVI-D interface

ORDERING GUIDE

■ WADE-8170

Intel® ATOM™ N270 1.6GHz processor Based Mini-ITX Board with VGA, 18bit LVDS, DVI, Dual LAN, Two COM Ports and Eight USB 2.0 Ports

- * Specifications are subject to change without notice.
- * Intel® ATOM™ processor is 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
 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
 Osaka Tel: +81-6-4731-2201
 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: +91-22-2685-9911
 E-mail: info@portwellaxsons.com
 http: //www.portwellaxsons.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