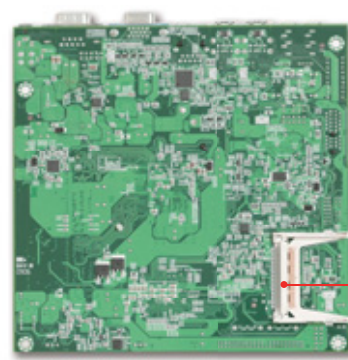
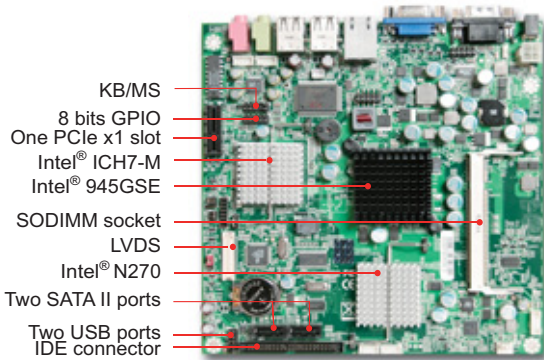


# WADE-8071

Intel® Low Power Atom™ N270 1.6GHz processor based Mini-ITX Board with DC12V input, dual display, Gigabit Ethernet, Two SATA Ports, Two COM ports and Six USB Ports support thin client application

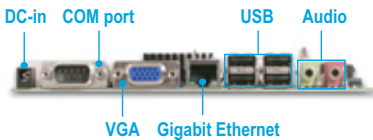


Supported by the Intel® mobile 945GSE chipset, WADE-8071 takes advantage of Intel® Atom™ N270 technologies. WADE-8071 features low power while providing dual displays such as LVDS and VGA. In addition, the fanless, low power WADE-8071 is the most suitable choice for POS, Medical, Gaming and Digital Signage applications.

## FEATURES

- Intel® Atom™ N270 1.6GHz processor
- Intel® 945GSE and ICH7-M chipset
- One 200-pin SODIMM supports single channel DDR2 SDRAM up to 2GB
- Dual display: VGA/LVDS, 3rd display via PCI-Express x1 graphic card
- One PCI-Express x1 expansion slot
- 20mm height supports thin client application

## REAR I/O



## ORDERING GUIDE

AB1-3284	WADE-8071.Mini-ITX ESB.945GSE+N270 processor.12V DC Input w/DDR2 SDRAM/VGA/LVDS/1xGbE/Audio
AA1-3078	PER-4110R.1 Slot Riser Card.PCIEx1 to PCIEx1

## PACKING LIST

One WADE-8071 Mini-ITX Main Board
One Installation CD
One SATA Cable
One SATA Power Cable
One USB Cable
One IDE Cable
One I/O shield

## GENERAL

Processor	- Intel® Atom™ N270 (1.60GHz,2.5W) processor in PBGA 437 package, L2 Cache 522 KB - FSB 533MHz - Supports Intel® Hyper-Threading Technology, Enhanced Intel SpeedStep® Technology, Thermal Monitoring Technologies, Execute Disable Bit
Chipset	Intel® 82945GSE Graphics and Memory Controller (6W) and ICH7M
BIOS	Award BIOS
Memory	Supports single channel up to 2GB DDR2 400/533 MHz SDRAM on one 200-pin SODIMM socket
Storage Devices	- 2x SATA port 3.0Gb/s data transfer rate - 1x IDE connector supports Ultra DMA100/66/33 MB/s - 1x CompactFlash socket supports Ultra DMA100/66/33 MB/s
Watchdog Timer	Programmable via S/W from 1 sec. to 255 min.
Hardware Monitoring	FAN Speed (CPU & System), Temperature (CPU & System), Voltage, Case open function
Expansion Interface	1x PCI Express x1 (Gen 1, 2.5 GT/s)

## I/O INTERFACE

Super I/O	Winbond W83627HG
Audio	- Intel® 945GSE built-in High Definition Audio up to 96-kHz 24-bit - Realtek ALC662-GR, 5.1 channels - Audio Jack DIP Light Pink/Lime
Ethernet	Realtek RTL8111C Gigabit Ethernet controller
Serial Port	- 1x RS232 port on rear I/O - 1x RS232 port on pin header
USB	- 4x USB 2.0 ports on rear I/O - 2x USB 2.0 ports on board with header - 480 Mb/s bus capable of high-speed/full-speed/low-speed data ranges
Keyboard & Mouse	1x PS/2 Keyboard & Mouse on board
GPIO	On board programmable 8-bit Digital I/Os

## DISPLAY

Graphic Controller	- Intel® 945GSE Integrated Graphics Media Accelerator (GMA) 950 supports hardware acceleration of video decode standards MC, DirectX 9.0c - Intel® Dynamic Video Memory Technology (Intel® DVMT 3.0)
Display Interface	- VGA: dual channel VGA, analog resolution up to 2048x1536 (QXGA) - LVDS: dual channel 18-bit and 24-bit output, Digital LVDS resolution up to 1600x1200 (UXGA)

## Mechanical & Environment

Dimension	170(L) x 170(W)mm; 6.69"(L) x 6.69"(W)
Power Supply	DC-12V input
Environment	- Operation Temperature: 0°C to 60°C - Relative Humidity: 10% to 90%, non-condensing
MTBF	Over 140,000 hours at 40°C

