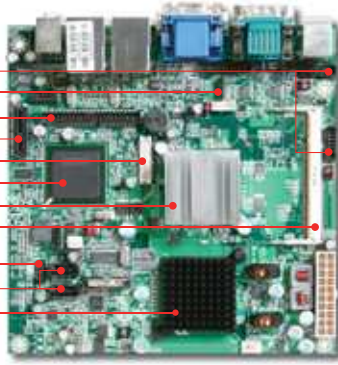


WADE-8070

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

- Two RS232 ports
- 8 bits GPIO
- IDE connector
- One PCIe x1 slot
- LVDS
- Intel® ICH7-M
- Intel® 945GSE
- SODIMM socket
- Two USB ports
- Two SATA II ports
- Intel® N270

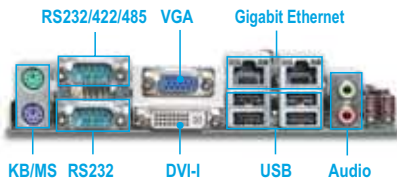


Built with the Intel® mobile 945GSE chipset, WADE-8070 takes advantage of Intel® Atom™ N270 technologies. This low power, fanless WADE-8070 makes it most suitable for POS, Medical, Gaming and Digital Signage applications.

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/DVI, 3rd display via PCI-Express x1 graphic card
- One Mini-PCI and one PCI-Express x1 expansion slot
- Two SATA, one CompactFlash socket & one IDE connector

REAR I/O



ORDERING GUIDE

| | |
|------------------|--------------------------------------------------------------------------------------------|
| AB1-3242 | WADE-8070.Mini-ITX ESB.945GSE+N270 processor.w/DDR2 SDRAM/VGA/LVDS/Dual GbE Ethernet/Audio |
| AA1-3089Z | PEP-5B1X1. 1 Slot Riser Card for Right Expansion. One PCI-E x1 Slot.For WADE-8070/8071 |

PACKING LIST

| |
|-----------------------------------|
| One WADE-8070 Mini-ITX Main Board |
| One Installation CD |
| One SATA Cable |
| One COM Cable |
| One USB Cable |
| One IDE Cable |
| One I/O shield |

GENERAL

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor | - Intel® Atom™ N270 (1.60GHz, 2.5W) processor in PBGA437 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 Compact Flash 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 slot (Gen 1, 2.5 GT/s) - 1x Mini-PCI socket |

I/O INTERFACE

| | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Super I/O | Winbond W83627UHG |
| 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 8111C Dual Gigabit Ethernet controller |
| Serial Port | - 1x RS232 port on rear I/O - 1x RS232/422/485 selectable on rear I/O - 2x 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 rear I/O |
| 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 decoding standards MC, DirectX 9.0c - Intel® Dynamic Video Memory Technology (Intel® DVMT 3.0) |
| Display Interface | - VGA: dual channel 18-bit VGA, analog resolution up to 2048x1536 (QXGA) - LVDS: dual channel 18-bit LVDS, Digital LVDS resolution up to 1600x1200 (UXGA) - DVI-I: One connector on rear I/O |

Mechanical & Environment

| | |
|--------------|-----------------------------------------------------------------------------------------|
| Dimension | 170(L) x 170(W)mm; 6.69"(L) x 6.69"(W) |
| Power Supply | -Typical: +12V(CPU)@0.17A; +12V@0.24A; +5V@1.31A; +3.3V@0.55A -Supports ATX mode |
| Environment | - Operation Temperature: 0°C to 60°C - Relative Humidity: 10% to 90%, non-condensing |
| MTBF | Over 140,000 hours at 40°C |

