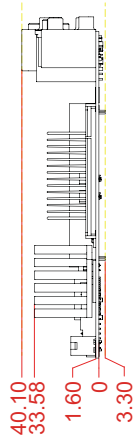
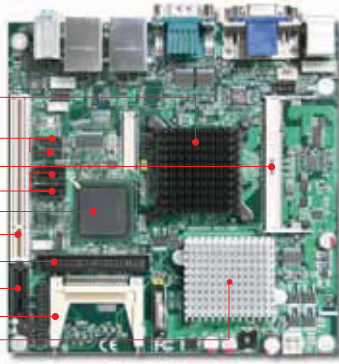


WADE-8170

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

- Intel® 945GSE
- Four USB ports
- SODIMM socket
- Two SATA II ports
- Intel® ICH7-M
- One PCI slot
- IDE connector
- One PCIe x1 slot
- CF socket
- Intel® N270



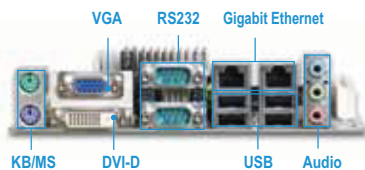
- Realtek RTL8111
- ITE IT8712F

Built with the Intel® mobile 945GSE chipset, WADE-8170 takes advantage of Intel® Atom™ N270 technologies. WADE-8170 features low power while providing multiple displays such as LVDS, VGA, TV-out and DVI. Based on 12V & 15V~24V DC power input design, the WADE-8170 would be the best solution for POS, Medical, Gaming and Digital Signage applications.

FEATURES

- Intel® Atom™ N270 1.6GHz processor
- Intel® 945GSE and ICH7-M chipset
- 12V, 15V~24V DC Power Input
- One 200-pin SODIMM supports single channel DDR2 SDRAM up to 2GB
- Dual display: VGA/LVDS/DVI/TV-Out, 3rd display via riser card
- One PCI expansion slot (Two PCI & one PCI-Expansion x1 slots via riser card)
- Two SATA, one Compact Flash socket & one IDE connector

REAR I/O



ORDERING GUIDE

AB1-3269	WADE-8170.Mini-ITX ESB.945GSE+N270 processor.w/DDR2 SDRAM/VGA/LVDS/Dual GbE Ethernet/Audio/12VDC Input
AA1-3102Z	PEP-5C1RX1. One PCI-E x1 Slot Riser Card for Right Expansion. PCI(no signal) +PCIe connectors.

PACKING LIST

One WADE-8170 Mini-ITX Main Board
One Installation CD
One SATA Cable
One SATA Power 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 support up to 3.0Gb/s data transfer rate - 1x 40 pin 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 32-bit slot - 1x PCI Express x1 slot (Gen 1, 2.5 GT/s) through riser card

I/O INTERFACE

Super I/O	ITE IT8712F
Audio	- Intel® 945GSE built-in High Definition Audio up to 192-kHz 24-bit - Realtek ALC888, 5.1 channels - Audio Jack DIP Light Pink/Lime/Light Blue
Ethernet	Realtek 8111 Dual Gigabit Ethernet controller
Serial Port	2x RS232 port on rear I/O
USB	- 4x USB 2.0 ports on rear I/O - 4x 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
Other	1x S-Video header

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 18bits LVDS, analog resolution up to 2048x1536 (QXGA) - LVDS: Digital LVDS resolution up to 1600x1200 (UXGA) - DVI: Digital DVI 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: 5% to 95%, non-condensing
MTBF	Over 100,000 hours at 40°C

