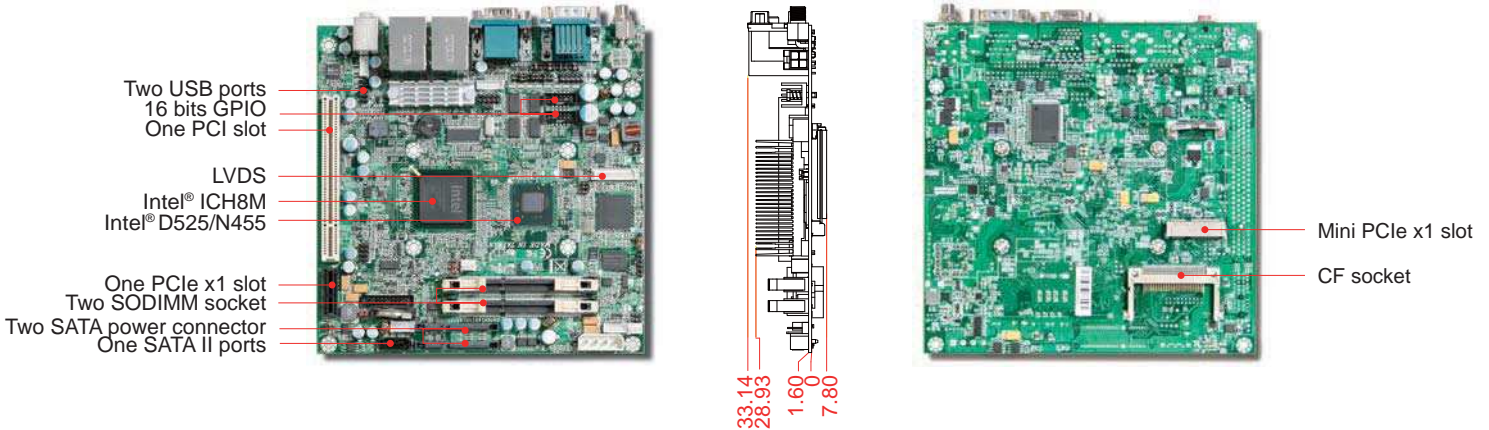


# WADE-8075/76

Intel® Dual Core™ Atom™ D525 1.8GHz/N455  
1.67GHz processor based Mini-ITX with DC12V  
input, DDR3 SDRAM, Dual display, Dual Gigabit  
Ethernet, Three SATA, Four COM and Six USB ports

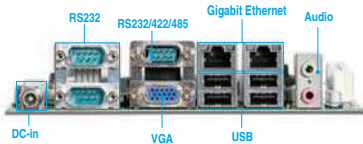


Based on Intel® mobile ICH8M chipset, the WADE-8075/76 takes advantages of Intel® Atom™ D525/N455 technologies. WADE-8075/76 which features low power, is capable of providing dual displays such as LVDS and VGA. In addition, the fanless, low power WADE-8075/76 is the best solution for POS, Medical, Gaming and Digital Signage applications.

## FEATURES

- Intel® Atom™ D525 1.8GHz/N455 1.67GHz processor
- Intel® ICH8M Chipset
- Two 204-pin SODIMMs support single channel DDR3 SDRAM up to 4GB
- Dual Display by VGA/LVDS (24 bits or 18 bits)
- One PCI-Express x1, one PCI expansion slot and one Mini-PCIe socket (with USB + PCIe1 signal)
- Three RS232 ports and one RS232/422/485 port

## REAR I/O



## ORDERING GUIDE

<b>AB1-3584</b>	WADE-8075 Mini-ITX ESB Intel Pineview 1.8G D525 on Board+ICH8M. w/DDR3 SO-DIMM/VGA/24bits LVDS/Dual GbE/COM/Audio/USB
<b>AB1-3585</b>	WADE-8076 Mini-ITX ESB Intel Pineview 1.67G N455 on Board+ICH8M. w/DDR3 SO-DIMM/VGA/18bits LVDS/Dual GbE/COM/Audio/USB
<b>AA1-3102Z</b>	PEP-5C1RX1. One PCI-E x1 Slot Riser Card for Right Expansion. PCI(no signal) +PCIe connectors.

## PACKING LIST

One WADE-8075/76 Mini-ITX Main Board
One Installation CD
One SATA Cable
One SATA Power Cable
One I/O shield

## GENERAL

processor	- Intel® Atom™ D525 (1.8GHz, 13W) N455 (1.67GHz,6.5W) processor in PGA 478 package - FSB 800MHz - Supports Intel® Hyper-Threading Technology, Intel® 64, Execute Disable Bit, Enhanced Intel SpeedStep® Technology (N455 only)
Chipset	Intel® ICH8M Graphics and Memory Controller (13.5W) and ICH8M
BIOS	AMI UEFI BIOS
Memory	Supports single channel up to 4GB DDR3 533/667 MHz SDRAM on two 204-pin SODIMM socket (WADE-8076, supports up to 2GB DDR3)
Storage Devices	- 1x SATA port 3.0Gb/s data transfer rate - 2x SATA ports with power support - 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, Auto throttling control when CPU overheats
Expansion Interface	- 1x PCI Express x1 slot (Gen 1, 2.5 GT/s) - 1x PCI 32-bit slot - 1x Mini-PCIe slot (Gen 1, 2.5 GT/s)

## I/O INTERFACE

Super I/O	Winbond W83310DG
Audio	- Intel® ICH8M built-in High Definition Audio up to 192-kHz 24-bit - Realtek ALC892, 5.1 channels - Audio Jack DIP Light Pink/Lime
Ethernet	RTL8111D x2 Dual Gigabit Ethernet
Serial Port	- 2x RS232 5V/12V selectable port on rear I/O - 1x RS232 5V/12V selectable with header - 1x RS232/422/485 5V/12V selectable port on rear I/O
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	1 PS/2 Keyboard & Mouse on board
GPIO	On board programmable 16-bit Digital I/Os
Other	1x parallel port on board box header

## DISPLAY

Graphic Controller	- Intel® ICH8M Integrated GMA 3150 Graphics supports full hardware acceleration of video decoding standards MPEG-2 - Intel® Dynamic Video Memory Technology (Intel® DVMT 4.0)
Display Interface	- Dual Channel 24-bit (WADE-8075) - Single Channel 18-bit (WADE-8076) - VGA: analog resolution up to 2048x1536 (QXGA) - LVDS: Digital LVDS resolution up to 1280x1024 (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 140,000 hours at 40°C

