

# WADE-8075/76

Leading Intel® 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



## FEATURES

- Intel® Atom™ D525 1.8GHz / N455 1.67GHz Processor
- Intel® ICH8M Chipset
- Two 204-Pin SO-DIMMs support single channel DDR3 SDRAM up to 4GB
- Dual Display by VGA / LVDS(24bits or 18bits)
- One PCI-Express x 1, one PCI expansion slot and one Mini-PCIe socket (with USB + PCIe1 signal)
- Three RS-232 ports and one RS232/422/485 port

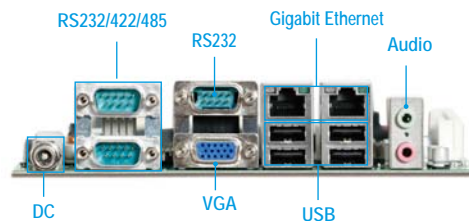
The WADE-8075/WADE-8076 built with Intel® ICH8M chipset and takes advantage of Intel® ATOM™ D525/N455 processor technologies that can support DDR3 memory, Dual Gigabit Ethernet ports, one expansion PCI-Express x1 slot, one PCI

slot and one Mini PCI socket. WADE-8075/WADE-8076 is the ideal platform for POS, Lottery, Medical, Gaming, high resolution digital signage, surveillance security monitoring, and Kiosk applications.

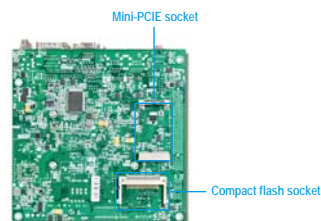
| SYSTEM         |   |
|----------------|---|
| CPU            | Intel® Atom™ D525/N455 processor  |
| DMI            | 4.8 GT/s-6.4 GT/s (Full-Duplex)   |
| BIOS           | AMI uEFI BIOS (SPI ROM)   |
| System Chipset | Intel® ICH8M  |
| System Memory  | Two 204-Pin SO-DIMM support single channel DDR3 SDRAM up to 4GB                                       |
| Storage        | 3 x Serial ATA connector high-speed data transfers at up to 3Gb/s                                     |
| SSD            | One compact flash   |
| Watchdog Timer | Programmable via S/W from 1sec. ~ 255min.   |
| H/W Monitor    | Monitoring Temperature, Voltage, and cooling fan status<br>Auto throttling control when CPU overheats |
| GPIO           | Onboard programmable 16-bit Digital I/Os(8x In/Out)   |
| Expansion      | - One PCI slot and One PCI-Ex1 slot<br>- One Mini-PCIe slot   |

| MECHANICAL & ENVIRONMENTAL |                               |
|----------------------------|-------------------------------|
| Power Requirement          | TBD                           |
| Operation Temperature      | 0-60°C                        |
| Operating Humidity         | 5-95% non-condensing          |
| Size (L x W)               | 6.69" x 6.69" (170mm x 170mm) |
| Weight                     | 0.95lbs (0.43 Kg)             |

## REAR I/O



## SOLDER SIDE



## ORDERING GUIDE

### ■ WADE-8075

Intel® Atom™ D525 1.8GHz Processor based Mini-ITX with DC12V input, DDR3 SDRAM, VGA and 24bits LVDS, Dual Gigabit Ethernet, Three SATA, Four COM and Six USB ports

### ■ WADE-8076

Intel® Atom™ N455 1.67GHz Processor based Mini-ITX with DC12V input, DDR3 SDRAM, VGA and 18bits LVDS, Dual Gigabit Ethernet, Three SATA, Four COM and Six USB ports

| I/O                |  |
|--------------------|--|
| MIO                | - 2 x RS232 5V/12V selectable<br>- 1 x RS232 5V/12V selectable, with header<br>- 1 x RS232/422/485 5V/12V selectable<br>- 1x KB/MS with header |
| IrDA               | N/A  |
| USB                | 4 x USB 2.0 ports and 2 x USB 2.0 with header  |
| Audio Interface    | Mic-in, Line-in/out, Line out with header  |
| Ethernet Interface | Dual Gigabit Ethernet(RTL8111D*2)  |

| DISPLAY        |  |
|----------------|--|
| Chipset        | Intel® ICH8M   |
| Display Memory | Intel® DVMT  |
| Resolution     | - Analog Display: Up to 2048 x 1536<br>- Digital LVDS: Up to 1280*1024 (WADE-8075)<br>Up to 1366*768 (WADE-8076) |
| LVDS           | - Dual Channel 24-bit (WADE-8075)<br>- Single Channel 18-bit(WADE-8076)  |



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