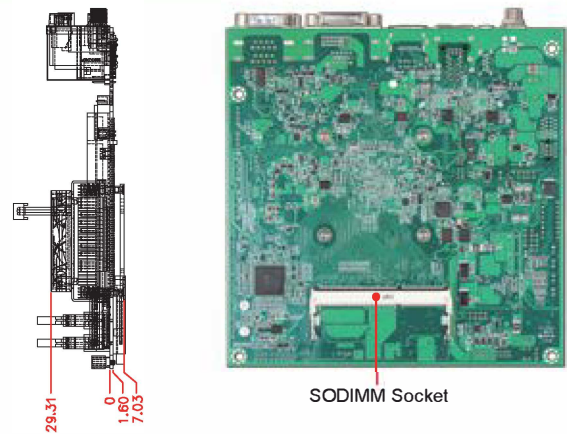
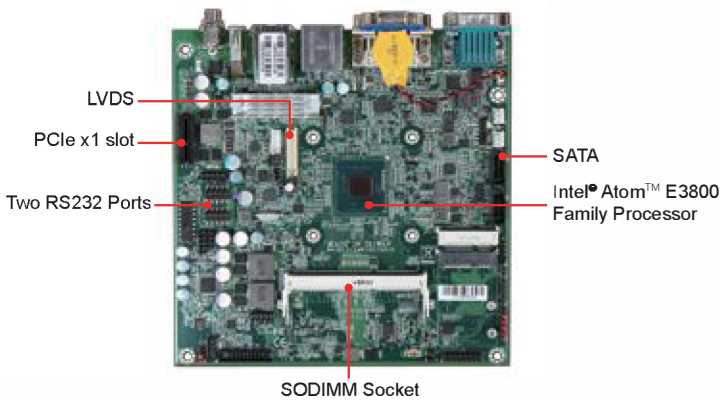


# WADE-8079

Intel® Atom™ E3800 SoC based Mini-ITX Board with VGA, DP, DVI, LVDS, Gigabit Ethernet, Audio, USB 3.0, SATA and Dual Mini-PCIe slot with mSATA interface

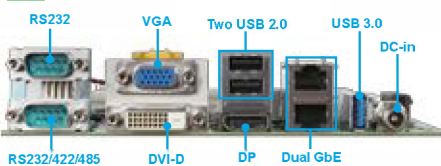


WADE-8079 is based on Intel® Atom™ processor E3800 product family with memory and PCI Express controller integrated to support two-channel DDR3L memory and PCI Express 2.0 lanes. Portwell has taken advantage of such technology to furnish a series of products that meets multiple industrial requirements for cost effectiveness, reliable performance and a high level of data integrity and uptime.

## FEATURES

- Latest Intel® Atom™ embedded processor Expansion Interface provides cost effective solutions with low power and quad core processor technology
- Support two DDR3L 1066/1333MT/s SDRAM, up to 8GB (E3845/ E3826)
- Support one DDR3L 1066/1333MT/s SDRAM, up to 4GB (E3815)
- Supports VGA/DVI/DP&LVDS (Via switch)
- 2x SATA II Ports (1x Switch Mini-PCIe)
- Total 5 USB ports (1x USB 3.0 Ports & 4x USB 2.0 Ports)

## REAR I/O



## ORDERING GUIDE

<b>AB1-3B39</b>	(R) WADE-8079-E3845 Mini-ITX ESB Intel Bay Trail (Vallyview-I E3845 QC 1.9GHz processor) on Board w/DDR3L SO-DIMM/VGA/DVI/DP/Dual GbE Lan/COM/USB
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## PACKING LIST

One WADE-8079 motherboard
One Driver CD
One SATA cable

## GENERAL

<b>Processor</b>	- Intel® Atom™ E3800 family processor - Cache up to 2MB (for Quad Core) - DPM (Defect Per Million devices) <50 - Support Intel® VT-x technology
<b>Chipset</b>	N/A
<b>BIOS</b>	Phoenix (EFI) BIOS
<b>Memory</b>	- support up to 8GB DDR3L 1066/1333 SDRAM on two 204 pin SO-DIMM socket. (E3845/ E3826) - support up to 4GB DDR3L 1066/1333 SDRAM on two 204 pin SO-DIMM socket. (E3815)
<b>Storage Devices</b>	- 2x SATA II support up to 3Gb/s data transfer rate(1x SATA II switch full size Mini-PCIe support mSATA)
<b>Watchdog Timer</b>	Programmable by embedded controller
<b>Expansion Interface</b>	- 1x PCIe x1 slot - 1x Half size Mini-PCIe(support PCIe & USB signal)

## I/O INTERFACE

<b>Super I/O</b>	Winbond F81216DG
<b>Audio</b>	- Realtek ALC892 supports 5.1 channels - Audio Jack Line out on board
<b>Ethernet</b>	Two on board Intel I210IT
<b>Serial Port</b>	- 1x RS232 port on rear I/O - 1x RS232/422/485 selectable port on rear I/O - 2x RS232 with header
<b>USB</b>	- 1x USB 3.0 Ports on rear I/O - 2x USB 2.0 Ports on rear I/O - 2x USB 2.0 Ports on board
<b>Keyboard &amp; Mouse</b>	PS/2 on board dedicated to Keyboard & Mouse
<b>GPIO</b>	On board programmable 8bit Digital I/O

## DISPLAY

<b>Graphic Controller</b>	- Intel® HD Graphics 4600 supports DirectX 11, OCL 1.2, OGL 3.2 - Video decode hardware acceleration supports for H.264, MPEG2, MVC, VC-1, WMV9 and VP8 formats
<b>Display Interface</b>	- VGA: resolution up to 1920x1200 - DVI: resolution up to 1920x1200 - DP: resolution up to 2560x1600 - LVDS: resolution up to 1600x1200

## Mechanical & Environment

<b>Dimension</b>	170mm(L) x 170mm(W); 6.69"(L) x 6.69"(W)
<b>Power Supply</b>	12~24V DC input
<b>Environment</b>	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%, non-condensing ; 5~95%, non-condensing
<b>MTBF</b>	Over 100,000hrs at 55°C

