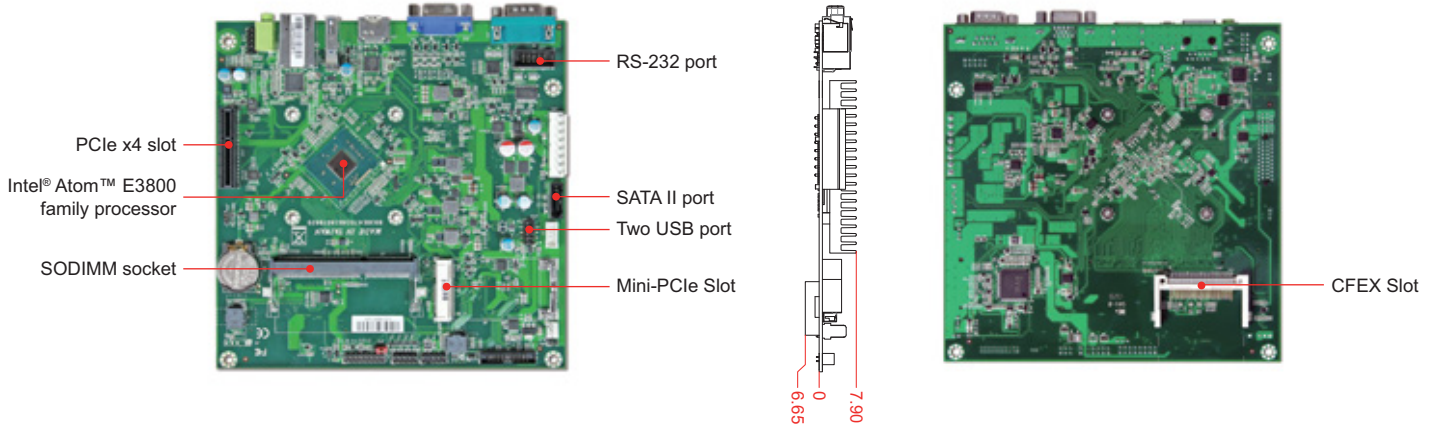


# WADE-8078

Intel® Valleyview-I SoC based Mini-TX. Board with VGA, HDMI, Gigabit Ethernet, Audio, USB 3.0, SATA and CFEX

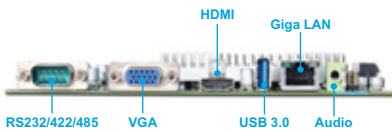


WADE-8078 is the first Portwell off-the-shelf Mini-ITX embedded board product based on the Intel® Atom™ processor E3800 product family with memory and PCI Express controller integrated to support one-channel DDR3L memory and PCI Express 2.0 lanes. Portwell has taken advantage of such technology to furnish 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 provides cost effective solutions with low power and quad core processor technology
- Supports PCIe x4 Slot (with PCIe x2 Lanes)
- Supports one DDR3L ECC 1066/1333MT/s SDRAM, up to 4GB
- Supports one USB 3.0 port

## REAR I/O



## ORDERING GUIDE

AB1-3A41Z	(R).WADE-8078- E3845.Mini-ITX ESB.Intel® Bay Trail(Vallyview-I QC 1.9GHz processor) on Board .w/DDR3L SO-DIMM/VGA/HDMI/GbE Lan/COM/Audio/USB
AB1-3A42Z	(R).WADE-8078- E3827.Mini-ITX ESB.Intel® Bay Trail(Vallyview-I DC 1.75GHz processor) on Board .w/DDR3L SO-DIMM/VGA/HDMI/GbE Lan/COM/Audio/USB
AB1-3A43Z	(R).WADE-8078- E3815.Mini-ITX ESB.Intel® Bay Trail(Vallyview-I SC 1.46GHz processor) on Board .w/DDR3L SO-DIMM/VGA/HDMI/GbE Lan/COM/Audio/USB

## GENERAL

Processor	- Intel® Atom™ E3800 family processor - Cache up to 2MB (for Quad Core) - DPM (Defect Per Million devices) <50 - Support Intel® VT-x technology
BIOS	- Phoenix(EFI) BIOS
Memory	- Support up to 4GB DDR3L - ECC 1066/1333 SDRAM on one 204pin SO-DIMM
Storage Devices	- One SATA 2.0 - One CFEX (optional) - One Mini-PCIe (optional)
Watchdog Timer	- Programmable by embedded controller
Expansion Interface	- Supports PCIe x4 slot (with PCIe x2 Lanes)

## I/O INTERFACE

Audio	- Realtek ALC892 5.1 Channels - Audio Jack Line out on board
Ethernet	- Onboard Intel I210AT
Serial Port	- Two series RX/TX supported from onboard EC (embedded controller)
USB	- 2 ports USB2.0 - 1 port USB3.0
Keyboard & Mouse	- KBC controller integrated in embedded controller
GPIO	- 8bit configurable controlled by embedded controller

## DISPLAY

Graphic Controller	- Intel® HD Graphics 4600 supports DirectX11, OGL 4.0, OGL 3.2 - Video decode hardware acceleration supports for H.264, MPEG2, MVC, VC-1, WMV9 and VP8 formats
Display Interface	- VGA: resolution up to 2560x1536@24bpp - HDMI: resolution up to 1920x1080@24bpp

## Mechanical & Environment

Dimension	- 170mm(L) x 170mm(W) x 1.6mm(H)
Power Supply	- ATX (support non-5V satdby)
Environment	- Operation temperature: 0~60°C - Storage temperature: -40~80°C - Relative humidity : 5~95%, non-condensing
MTBF	- Over 100000hrs at 55°C

