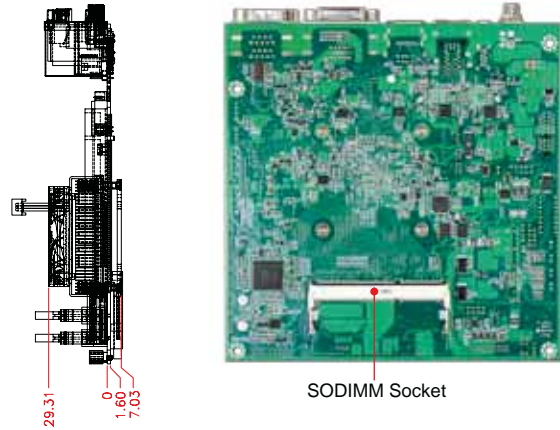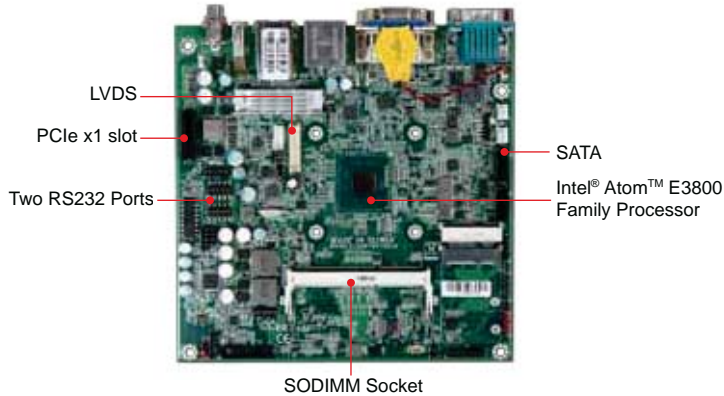# WADE-8079

Intel® Bay Trail Celeron® J1900, and Atom™ E3800 SoC based Mini-ITX Board with VGA, DP, DVI, LVDS, Gigabit Ethernet, Audio, USB 3.0, SATA and Dual Mini-PCIe slot

- LVDS
- PCIe x1 slot
- Two RS232 Ports
- SATA
- Intel® Atom™ E3800 Family Processor
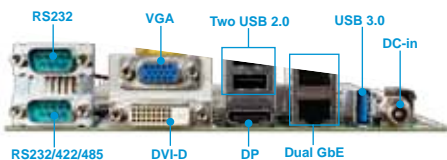- SODIMM Socket

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SODIMM Socket

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
- ▶ Supports two DDR3L 1066/1333MT/s SDRAM, up to 8GB
- ▶ 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

RS232　VGA　Two USB 2.0　USB 3.0　DC-in

RS232/422/485　DVI-D　DP　Dual GbE

ORDERING GUIDE

AB1-3B39	(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
AB1-3B77	(R).WADE-8079-E3826, Mini-ITX Embedded System Board base on Intel Atom Bay Trial-I DC_1.46Ghz E3826,with DDR3L SO-DIMM/ VGA/ DVI/ DP/ Dual GbE and USB 3.0
AB1-3B76	(R).WADE-8079-E3815, Mini-ITX Embedded System Board base on Intel Atom Bay Trial-I SC_1.46Ghz E3815 with DDR3L SO-DIMM/ VGA/ DVI/ DP/ Dual GbE and USB 3.0
AB1-3C16	(R).WADE-8079-J1900, Mini-ITX Embedded System Board base on Intel Celeron Bay Trial-D QC_2Ghz J1900 with DDR3L SO-DIMM/ VGA/ DVI/ DP/ Dual GbE and USB 3.0

GENERAL

Processor	- Intel® Bay Trail Celeron® J1900, and Atom™ E3800 family processor - Cache up to 2MB (for Quad Core) - DPM (Defect Per Million devices) <50 - Support Intel® VT-x techology
Chipset	N/A
BIOS	Phoenix(EFI) BIOS
Memory	- Support up to 8GB DDR3L 1066/1333 SDRAM on two 204pin SO-DIMM sockets
Storage Devices	- 2x SATA II support up to 3Gb/s data transfer rate(1x SATA II switch full size Mini-PCIe support mSATA)
Watchdog Timer	Programmable by embedded controller
Expansion Interface	- 1x PCIe x1 slot - 1x Half size Mini-PCIe(support PCIe & USB signal)

I/O INTERFACE

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

DISPLAY

Graphic Controller	- 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
Display Interface	- VGA: resolution up to 1920x1200 - DVI: resolution up to 1920x1200 - DP: resolution up to 2560x1600 - LVDS: resolution up to 1600x1200

Mechanical & Environment

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

DDR3L　USB 3.0　SATA 3Gb　GPIO　LVDS　Fanless　Giga LAN　I²C　Watch DOG　VGA　DVI-D　DP