

AECX-BYT1 (WECX-E38451)

Intel® Atom® / Celeron® Series SoC based Mini-ITX
3.5" Embedded board with VGA/HDMI/LVDS, SATA II,
3 COM, 6 USB, Dual Intel® GbE LAN.



Fanless

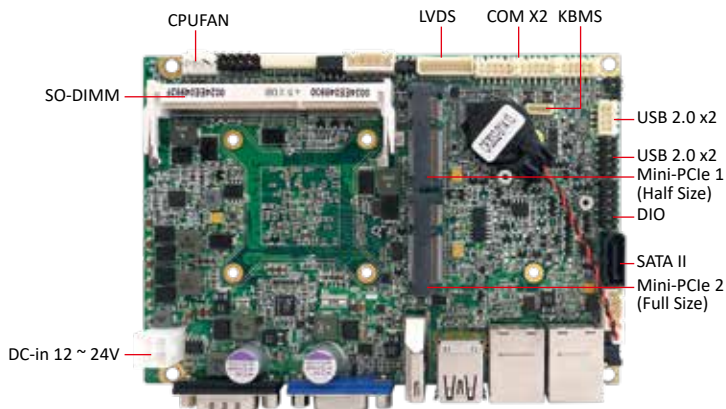


Wide Temp.



12 - 24V

Wide DC-in



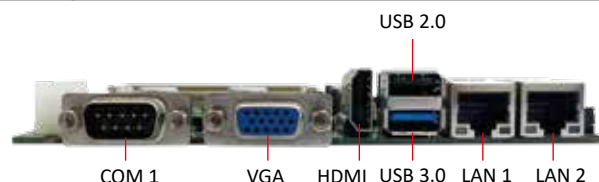
Key Features

- Intel® Bay Trail Atom® / Celeron® series SoC onboard
- One 204-pin SO-DIMM up to 8GB DDR3L 1333MHz SDRAM
- Dual Display: VGA/HDMI/LVDS
- Two Intel® Gigabit Ethernet ports
- 2 Mini-PCIe (1 w/ mSATA) expansion slots
- 1 SATA II, 3 COM, 1 USB 3.0 and 5 USB 2.0
- DC-in 12V~24V
- EuP/ErP 2013 Ready

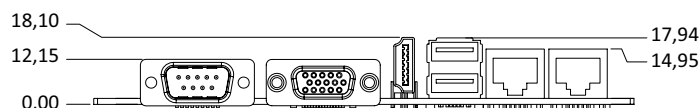
Product Specification

System Processor/Chipset	
Processor	Intel® Bay Trail series SoC onboard Atom® E3845 (1.91GHz, QC, 10W) Atom® E3825 (1.33GHz, DC, 6W) Celeron® J1900 (2.0GHz/2.42GHz, QC, 10W)
Chipset	Intel® Bay Trail SoC integrated
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR3L 1333MHz SDRAM (E3845/J1900) DDR3L 1066MHz SDRAM (E3825)
Max. capacity	Up to 8GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen7 Graphics
Display interface	VGA, HDMI, LVDS (Dual channel 18/24-bit)
Multi-display	Up to two independent displays
Resolution	VGA: Up to 2560 x 1600 @ 60Hz HDMI: Up to 1920 x 1200 @ 60Hz LVDS: Up to 1920 x 1200 @ 60Hz
Ethernet	
Interface	10/100/1000 Mbps
Controller	LAN1: Intel® I210 GbE LAN2: Intel® I210 GbE
Connector	2 x RJ45 (rear I/O)
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Realtek ALC662 HD Audio Codec
Expansion Slot	
Mini-PCIe	1 x Half size, 1 x Full size (combo mSATA)
SATA	
Max. data transfer rate	3.0Gb/s
Port	1 x SATA II
I/O	
Audio	Line-in, Line-out, Mic-in (box-header)
USB	1 x USB 3.0 (rear I/O) 5 x USB 2.0 (1 x rear I/O, 2 x pin-header, 2 x box-header)
COM	2 x RS-232 (box-header) 1 x RS-232/422/485 (rear I/O)
HDMI/VGA/DVI/DP/LVDS	1 x VGA (Rear I/O), 1 x HDMI (rear I/O) 1 x LVDS (box-header)
DIO	1 x 4-in / 4-out Digital I/O (box-header)
SMBus	1 x SMBus (box-header)
PS/2	1 x PS/2 Keyboard and Mouse (box-header)
Power Requirement	
Power connector	1 x ATX (2x2-pin) or Water 1 x 2P (optional)

Power type	DC-in 12V ~ 24V
Power mode	AT / ATX (by jumper selection)
Watchdog Timer	
Interval	Programmable 1 ~ 255 sec/min
Output	System reset
Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 80°C (-40°F ~ 176°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	3.5" Embedded Board 146mm x 102mm (5.75" x 4.01")



Dimensions



Ordering Information

Part Number	Description
AECX-BYT1-3845	3.5", Intel Atom E3845 10W, HDMI/VGA/LVDS, SATA/3COM/6USB/2LAN, DC(12V~24V)/ATX4P
AECX-BYT1-3825	3.5", Intel Atom E3825 6W, HDMI/VGA/LVDS, SATA/3COM/6USB/2LAN, DC(12V~24V)/ATX4P
AECX-BSW1-1900 (MOQ)	3.5", Intel Celeron J1900 10W, HDMI/VGA/LVDS, SATA/3COM/6USB/2LAN, DC(12V~24V)/ATX4P

Optional Accessories

Part Number	Description
VK00000700A9	SATA cable
VK00002600A9	SATA power cable
NAAA000100LQ	Heatsink
113310306601	Heat Spreader