

# AECX-BSW1 (WECX-BSW1)

Intel® Pentium®/Celeron® N3000 Series SoC based  
3.5" Embedded board with HDMI/DP/LVDS, SATA III, 3 COM, 6 USB, Dual Intel® GbE LAN.



Fanless



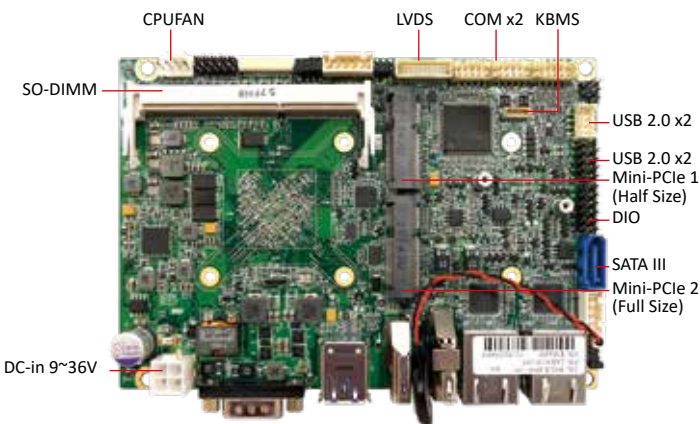
9 - 36V

Wide DC-in



4K/2K

Multi Display



## Key Features

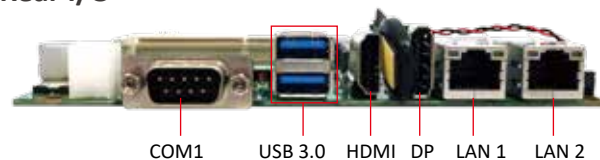
- Intel® Braswell Pentium®/ Celeron® series SoC onboard
- One 204-pin SO-DIMM up to 8GB DDR3L 1600MHz SDRAM
- Multi-Display: HDMI/DP/LVDS
- Two Intel® Gigabit Ethernet ports
- 2 Mini-PCIe (1 w/ mSATA) expansion slots
- 1 SATA III, 3 COM, 2 USB 3.0 and 4 USB 2.0
- Supports 4K/2K Resolution Display
- DC-in 9V ~ 36V
- EuP/ErP 2013 Ready

## Product Specification

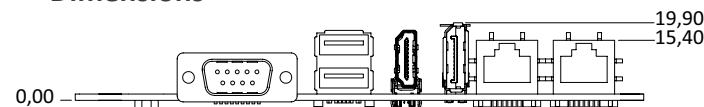
System Processor/Chipset	
Processor	Intel® Braswell series SoC onboard Pentium® N3710 (1.6GHz/2.56GHz, QC, 16EU, 6W) Celeron® N3160 (1.6GHz/2.24GHz, QC, 12EU, 6W) Celeron® N3060 (1.6GHz/2.48GHz, DC, 12EU, 6W) Celeron® N3010 (1.04GHz/2.24GHz, DC, 12EU, 4W)
Chipset	Intel® Braswell SoC integrated
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR3L SDRAM up to 1600 MHz
Max. capacity	Up to 8GB
Socket	1 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen 8-LP Graphics
Display interface	2 x HDMI v1.4 (co-layout DP v1.2) 1 x LVDS (eDP) 2ch 18/24-bit (co-layout eDP) 1 x AMIO (DP v1.2), 1 x eDP v1.3 (optional) 1 x HDMI v1.4b, 2 x DP v1.1a 1 x LVDS (Dual channel 18/24-bit)
Multi-display	Up to three independent displays
Resolution	HDMI: 3840 x 2160 @ 30Hz (max) DP: 3840 x 2160 @ 30Hz (max) LVDS: 1920 x 1200 @ 60Hz (max)
Ethernet	
Interface	10/100/1000 Mbps
Controller	LAN1: Intel® I219 GbE PHY w/ AMT v11.0 (only Core™ i7/i5 processor supports) 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	6.0Gb/s
Port	1 x SATA III
I/O	
Audio	Line-in, Line-out, Mic-in (box-header)
USB	2 x USB 3.0 (rear I/O) 4 x USB 2.0 (2 x pin-header, 2 x box-header)
COM	2 x RS-232 (box-header) 1 x RS-232/422/485 (rear I/O) All ports of with 5V selection
HDMI/VGA/DVI/DP/LVDS	1 x HDMI (rear I/O), 1 x DP (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 DC-Jack $\psi$ 2.5mm (optional)
Power type	DC-in 9V ~ 36V
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) -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")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
AECX-BSW1-3710 (MOQ)	3.5", Intel Pentium N3710 6W, HDMI/DP/LVDS, SATA/3COM/6USB/2LAN, DC(9V~36V)/ATX4P
AECX-BSW1-3160	3.5", Intel Celeron N3160 6W, HDMI/DP/LVDS, SATA/3COM/6USB/2LAN, DC(9V~36V)/ATX4P
AECX-BSW1-3060 (MOQ)	3.5", Intel Celeron N3060 6W, HDMI/DP/LVDS, SATA/3COM/6USB/2LAN, DC(9V~36V)/ATX4P
AECX-BSW1-3010 (MOQ)	3.5", Intel Celeron N3060 4W, HDMI/DP/LVDS, SATA/3COM/6USB/2LAN, DC(9V~36V)/ATX4P

## Optional Accessories

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