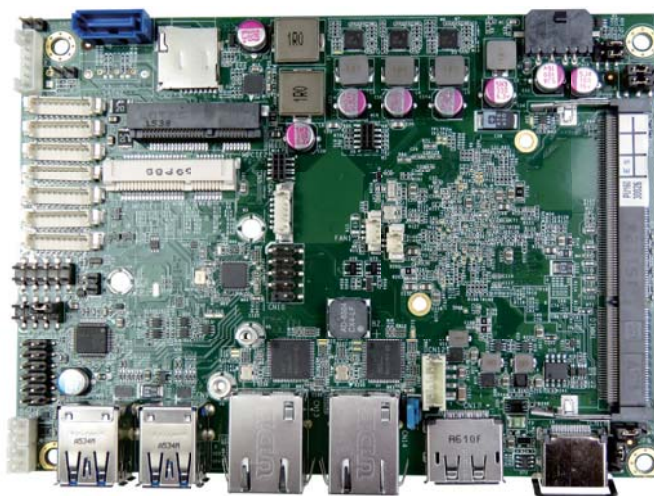


# ECX-BW00

Single Board Computer in ECX Form Factor  
with Intel® Braswell SoC Quad Core Processor



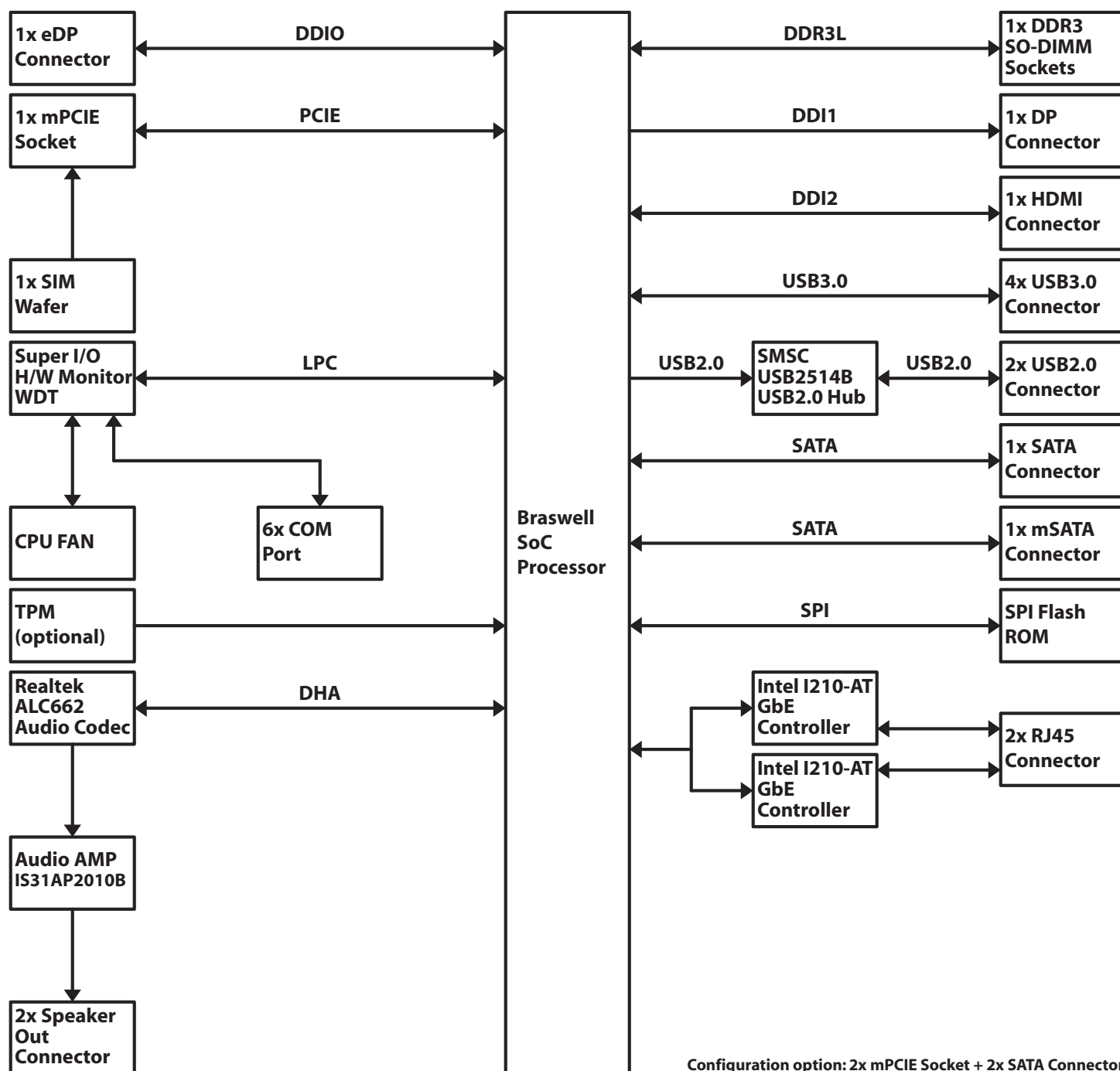
- Intel® Braswell SoC Quad Core Processor, Celeron® N3160
- 1x DDR3L 1600 SO-DIMM up to 8GB
- 1x SATA, 1x mSATA, 1x Micro-SD Card Cage for storage
- 1x eDP, 1x HDMI, 1x DP for display output
- Triple display support
- 2x LAN, 1x mPCIe for network connection
- 4x USB3.0, 2x USB2.0, 6x COM, 1x 8-bit DIO for peripheral connection

## Product Overview

The ECX-BW00 is an ECX form factor single board computer equipped with Intel's latest Braswell SoC Quad Core Processor, Celeron® N3160, providing a performance-improved option for power-efficient platform finders. It supports triple display configuration

from its 1x eDP, 1x HDMI and 1x DP outputs. In addition, it features 4x USB3.0, 2x USB2.0, 6x COM, 1x 8-bit DIO for peripheral applications, 2x LAN, 1x mPCIe expansion slot for wired / wireless connectivity, and 1x SATA, 1x mSATA, 1x Micro SD card cage for storage support.

## Block Diagram

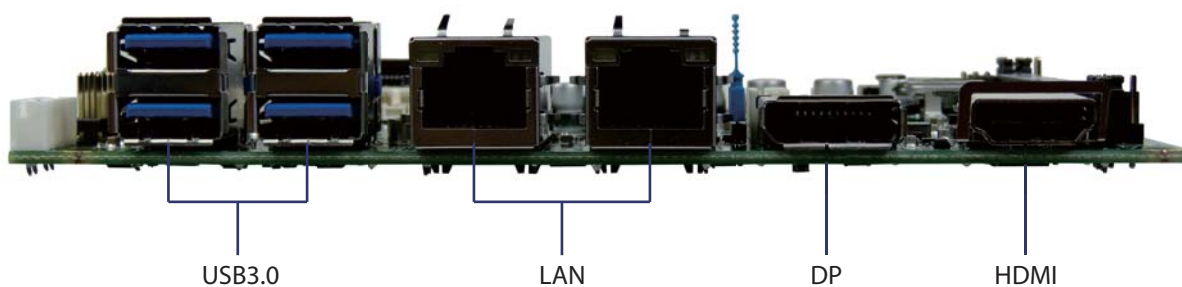


## Technical Information

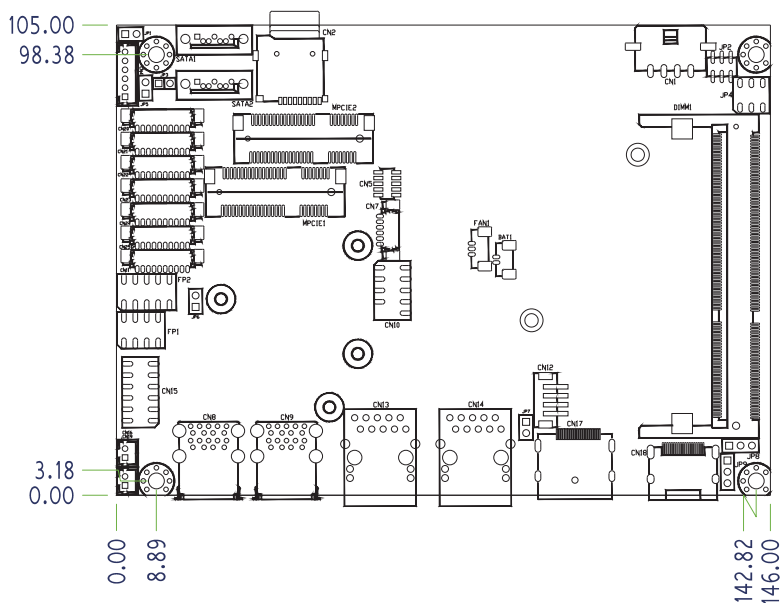
<b>CPU Support</b>
Intel® Celeron® N3160 (Quad Core, 2M Cache, up to 2.24 GHz, 6W TDP)
<b>Memory</b>
1x DDR3L 1600 SO-DIMM up to 8GB
<b>Graphic Controller</b>
Intel® HD Graphics 400
<b>Display Interfaces</b>
1x eDP (2560 x 1440 @ 60Hz)
1x HDMI (2560 x 1600 @ 60Hz / 3840 x 2160 @ 30Hz, on rear)
1x DP (2560 x 1600 @ 60Hz / 3840 x 2160 @ 30Hz, on rear)
<b>Multiple Display</b>
Triple
<b>Audio Chipset</b>
Realtek ALC662
<b>Audio Interfaces</b>
2x Speaker-out (3W)
1x Line-in (by header)
1x Line-out (by header)
1x Mic-in (by header)
<b>Ethernet</b>
2x LAN (RJ-45 on rear, Intel® I210-AT)
<b>USB</b>
4x USB3.0 (Type A on rear)
2x USB2.0 (by header)
<b>Serial Ports</b>
2x RS-232/422/485 (by header)
4x RS-232 (by header)
<b>Other I/O Ports</b>
1x 8-bit DIO (by wafer)

<b>Storage &amp; Expansion</b>
1x SATA
1 x mSATA (full size)
1x Micro SD Cage
1x mPCIe (full size)
1x SIM Card Cage (by wafer)
<b>Power Supply</b>
Connector: 1x4-pin Lockable Wafer
Input Voltage: DC 12V
<b>Firmware</b>
BIOS: AMI uEFI BIOS w/ 64Mb SPI Flash
Watchdog: Programmable WDT to generate system reset event
H/W Monitor: Voltages, Temperatures
Real Time Clock: SoC integrated RTC
TPM: optional (Infineon SLB 9635 TPM 1.2)
<b>System Control &amp; Monitoring</b>
1x Header for Reset button, HDD LED & External Speaker
1x Header for Power button, Power LED & SM bus
1x Header for mPCIe activity LED
<b>Cooling</b>
1x Wafer for CPU Smart Fan
<b>OS Support</b>
Windows 7, Windows 8, Windows 10, Linux
<b>Dimensions</b>
ECX (146 x 105 mm / 5.75" x 4.13")
<b>Mechanical Characteristics</b>
Operation Temp.: 0°C ~ 60°C / 32°F ~ 140°F
Storage Temp.: -20°C ~ 80°C / -4°F ~ 176°F
Humidity: 0% ~ 95%
<b>Certification</b>
CE, FCC Class A

## ECX-BW00 Rear I/Os



## Mechanical Dimensions



## Ordering Information

Article	Part No.	Description
ECX-BW00	B3EXBW00-000000T	Intel® Celeron® N3160, 1x DDR3L, 1x SATA, 1x mSATA, 1x Micro-SD, 1x eDP, 1x HDMI, 1x DP, 2x LAN, 4x USN3.0, 2x USB2.0, 2x RS-232/422/485, 4x RS-232, 1x DIO, 1x mPCIe

## Accessories

Product Name	Part No.	Description
SATA Cable *	0C5020000004240L	7-pin connector with lock, L=46cm
DC In Cable *	0C5020000001580L	MX3.0 1x4P 3.0pitch to DC JACK 5.5x2.5 , L=30cm
SATA Power Cable *	0C5020000001590L	WL2000H 1x4P 2.0pitch to SATA 1x15P 1.27pitch , L=46cm
COM Port Cable *	0C5020000000910L	10-pin pitch=1.25mm to DB-9 connector, L=10cm
DIO Cable *	0C5020000002060L	D-SUB-9P(Female) to MX51021-10P 1x10P 1.25pitch,L=8cm
USB Cable *	0C502USB0201010L	2.54mm 10-pin to 2xUSB connectors with bracket, L=30cm
Audio Cable *	0C5020000002050L	WL6008H 2x6P 2.54pitch to EAR phone jack x3 pitch:3.5mm,L=35cm
3G/4G Mini SIM Card Holder Kit *	0ZHK12003GSIM003	W/ SIM CARD HOLDER *1, 3G SIM CARD Cable *1

(Note: the asterisk (\*) means that this item is optional.)