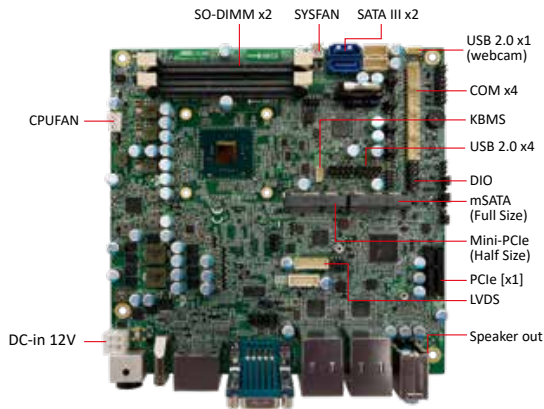


# AMIX-BSW0 (WMIX-BSW0)

Intel® Pentium®/ Celeron® N3000 Series SoC based Mini-ITX Motherboard with HDMI/2 DP/LVDS, 2 SATA III, 6 COM, 9 USB, Dual Intel® GbE LAN.



## Key Features

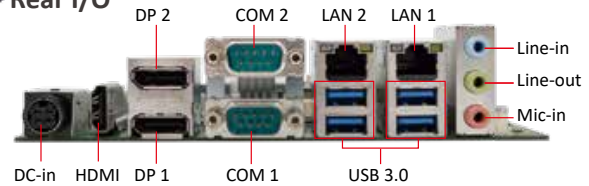
- Intel® Braswell Pentium® / Celeron® series SoC onboard
- Two 204-pin SO-DIMM up to 8GB DDR3L 1600MHz SDRAM
- Multi-Display: HDMI/2 DP/LVDS
- Two Intel® Gigabit Ethernet ports
- 1 PCIe (x1), 1 Mini-PCIE and 1 mSATA expansion slots
- 2 SATA III, 6 COM, 4 USB 3.0 and 5 USB 2.0
- Supports 4K/2K resolution display
- Supports TPM v1.2/v2.0 (optional)
- EuP/ErP 2013 Ready

## Product Specification

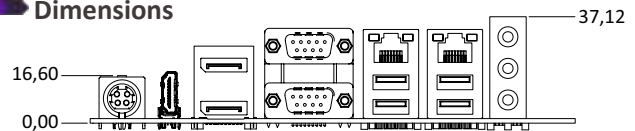
System Processor/Chipset	
Processor	Intel® Braswell series SoC onboard Pentium®N3710(1.6GHz/2.56GHz,QC, 16EU, 6W) Celeron®N3160(1.6GHz/2.24GHz,QC, 12EU, 6W) Celeron®N3060 1.6GHz/2.28GHz,DC, 12EU, 6W) Celeron®N3010(1.04GHz/2.24GHz,DC, 12EU, 4W)
Chipset	Intel® Braswell SoC integrated
BIOS	AMI UEFI Flash ROM
Memory	
Technology	DDR3L SDRAM up to 1600 MHz
Max. capacity	Up to 8GB
Socket	2 x 204-pin SO-DIMM
Display	
Graphics	Intel® HD Gen 8-LP Graphics
Display interface	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	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	
PCI Express	1 x PCIe (x1)
Mini-PCIE	1 x Half size
mSATA	1 x Full size
SATA	
Max. data transfer rate	6.0Gb/s
Port	2 x SATA III (1x Share mSATA)
I/O	
Audio	Line-in, Line-out, Mic-in (rear I/O) 1 x SPKR w/ Amplifier 4Ω/6W (box-header)
USB	4 x USB 3.0 (rear I/O) 5 x USB 2.0 (4x pin-header, 1x box-header)
COM	5 x RS-232 (1x rear I/O, 4x box-header) 1 x RS-232/422/485 (rear I/O) All ports with 5V/12V by Jumper selection
HDMI/VGA/DVI/DP/LVDS	1 x HDMI (rear I/O), 2 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 (pin-header)
PS/2	1 x PS/2 Keyboard and Mouse (box-header)

Other	
TPM	Infineon TPM v1.2 (optional) / TPM v2.0 (optional)
Power Requirement	
Power connector	1 x ATX (+12V 2x2-pin), 1 x DC-Jack 4-pin
Power type	DC-in 12V
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	-20°C ~ 80°C (-4°F ~ 176°F)
Relative humidity	-40°C ~ 80°C (-40°F ~ 176°F)
Form Factor	
Dimensions (L x W)	Mini-ITX 170mm x 170mm (6.69" x 6.69")

## Rear I/O



## Dimensions



## Ordering Information

Part Number	Description
AMIX-BSW0-3710	Mini-ITX, Intel Pentium N3710 6W, HDMI/2DP/LVDS, SATA/6COM/9USB/2LAN, DC(12V)/DC-Jack(Lock)
AMIX-BSW0-3160	Mini-ITX, Intel Celeron N3160 6W, HDMI/2DP/LVDS, SATA/6COM/9USB/2LAN, DC(12V)/DC-Jack(Lock)
AMIX-BSW0-3060	Mini-ITX, Intel Celeron N3060 6W, HDMI/2DP/LVDS, SATA/6COM/9USB/2LAN, DC(12V)/DC-Jack(Lock)
AMIX-BSW0-3010	Mini-ITX, Intel Celeron N3010 4W, HDMI/2DP/LVDS, SATA/6COM/9USB/2LAN, DC(12V)/DC-Jack(Lock)

## Optional Accessories

Part Number	Description
NABB002300AO	I/O shield
VK00000700A9	SATA cable
VK00002600A9	SATA power cable
NAAAQ00200DY	Heatsink w/o FAN

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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