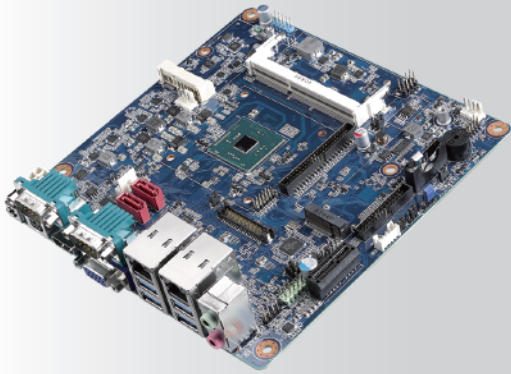


# IBSW-IB



## Intel® Celeron N3160 Quad Core / N3060 Dual Core Mini-ITX

### Features

- ▶ Lower total cost of ownership with DC12V support and onboard TPM2.0 (optional) & Amplifier (optional)
- ▶ Supports 1 PCIe x1, 1 M.2 (key-B), 1 Mini-PCIe expansion slot, 6 COMs, 4 USB 3.0 & 2 USB 2.0, dual LAN
- ▶ Supports DP, HDMI, LVDS
- ▶ One 204-pin SO-DIMM up to 8 GB DDR3L 1600 MHz SDRAM
- ▶ Supports Intel Celeron processor N3160 or N3060

### Specifications

#### System

CPU	Intel® Braswell N3060 or N3160
BIOS	AMI 64Mb SPI Flash
System Chipset	SoC
I/O Chip	Nuvoton NCT6106D
Memory Type	One 204-pin SODIMM up to 8GB DDR3L 1600 MHz
Watchdog Timer	Reset : 1 to 255 sec/min per step
Expansion	1 Mini-PCIe, 1 PCIe x1
Power Status	S0, S3, S4, S5
Smart Fan Control	Yes

#### I/O

MIO	1 LVDS, 2 USB2.0, 1 M.2, 3 RS-232, 1 RS-232 with 5V/12V Power (WCL)
USB	2 SATA3, 2 Fan, 1 LPC, 1 8-bit GPIO
GPIO	4 USB3.0(rear), 1 USB2.0 Header (internal)
	8-bit General Purpose I/O

#### Display

HDMI	Onboard, up to 3440 x 1440
VGA	Onboard, up to WUXGA 1920 x 1200 (@60Hz)
LVDS	Onboard, up to QXGA 2048 x 1536 (@49.94Hz)

#### Audio

Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	Line-out, Mic-in, Front Audio Header
Audio Amplifier (W)	2W, TI TPA2012 (Optional)

#### Ethernet

LAN 1	Realtek RTL8111G Gigabit LAN
LAN 2	Realtek RTL8111G Gigabit LAN

#### Back Panel I/O Port

- 1 VGA Port
- 1 HDMI Port
- 4 USB 3.0 Port
- 1 Audio I/O (2 Jacks)
- 1 DC-in Jack
- 2 LAN RJ45 Port
- 2 COM RS-232 (Wake-On-Ring)
- 1 PS/2 Keyboard/ Mouse Port

#### Internal I/O Connector

- 4 COM RS-232 Connector (1 with 5V/12V)
- 2 SATA 3.0 Connector
- 1 SATA Power Connector
- 1 Front Panel Connector
- 1 Front Audio Connector
- 1 CPU Fan Connector
- 1 System Fan Connector
- 1 USB 2.0 Connector
- 1 M.2
- 1 Mini PCI-E Connector
- 1 LVDS Connector
- 1 LVDS Backlight Connector
- 1 AMP Connector
- 1 GPIO Connector

#### Power

Power Requirement	+12V (5A)
Power Type	12V DC-in
Power Connector	1 4-pin DC-in Power Connector, 1 4-pin ATX 12V Power Connector

#### Mechanical & Environmental

Operating Temperature	0°C to 60°C (32°F to 140°F)
Operating Humidity	95%@40°C (non-condensing), operating
Size (L x W)	6.69" x 6.69" (170 mm x 170 mm)
Weight	0.77 lbs (0.35 Kg)

### Ordering Information

Part Number	Description
IBSW-IB00-00A1E	IBSW-IB MiniITX Standard N3060
IBSW-IB10-00A1E	IBSW-IB MiniITX Standard N3160