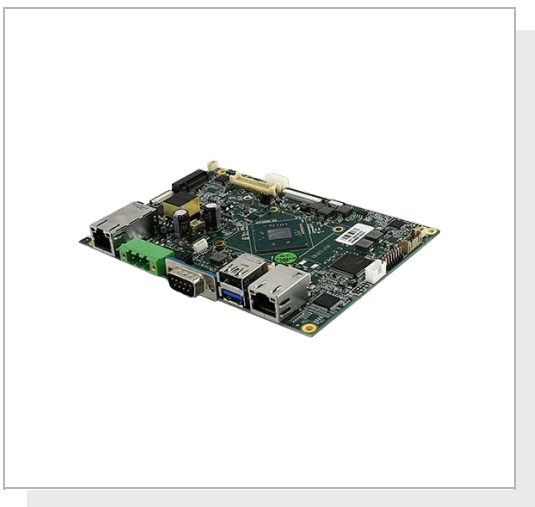


# IB32S

## Intel® Celeron® N2930 x86, 3.5" Single Board Computer



### KEY FEATURES

- 3.5" Form Factor (146mm x 102mm / 5.7 x 4 inches)
- Intel® Celeron® Bay Trail-M N2930, Embedded motherboard
- System memory DDR3L 1600, SO-DIMM Max 8GB
- Intel® HD Graphics Engine
- 2 x Giga LAN, one with PoE function
- 1 x USB 3.0, 1 x USB 2.0, 1 x RS232/422/485
- 3.5 inch single board computer



### SPECIFICATIONS

System Specification			
<b>Processor</b>	Intel Celeron N2930 1.83GHz (up to 2.16GHz)	<b>Memory</b>	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
<b>Storage</b>	1 x M.2 2242 B-key SSD 128GB. M.2 2242 B-key SSD up to 512GB. (Optional)	<b>Ethernet controller</b>	2 x Intel® Ethernet Controller
<b>Operating System</b>	Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)		
IO Ports			
<b>Power Input</b>	1 x 12V DC, 3-Pin Terminal Block	<b>USB Port</b>	1 x USB3.2 Gen1x1 (Type-A) 1 x USB2.0 (Type-A)
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232)	<b>Video</b>	1 x VGA (Optional)
<b>LAN</b>	2 x Giga LAN RJ45 Connector, One with PoE(PD, 802.3at)(Optional)		
Internal IO Ports			
<b>Power input</b>	1 x 3pin Terminal Block	<b>Power output</b>	1 x 2pin(1x2) red wafer for 5V DC out
<b>USB</b>	1 x 8pin(2x4) for 2 x USB 2.0 1 x 4pin(1x4) for 1 x USB 2.0 1 x FPC connector(CN8) for touch screen	<b>UART</b>	1 x 6pin(1x6) for UART
<b>Display</b>	1 x 40pin DF13 connector Co-lay for LVDS and eDP 2 x 40pin FPC connector Co-lay for LVDS(CON3, CON4) (Optional) 1 x 10pin FFC connector for VGA (Optional)	<b>Backlight</b>	1 x 7pin(1x7) for panel backlight
<b>DIDO</b>	1 x 14pin(2x7) for Digital input/output	<b>VR</b>	1 x 5pin(1x5) MCU debug port
<b>OSD</b>	1 x 10pin(2x5) for OSD control	<b>Speaker</b>	2 x 2pin(1x2) for Speaker
<b>Backup battery</b>	1 x 2pin(1x2) for RTC battery	<b>Audio</b>	1 x 4pin(1x4) for Digital Mic
<b>BIOS debug</b>	1 x 20pin(2x10) for LPC debug		
Certification			
<b>Certification</b>	CE, FCC		
Mechanical			
<b>Dimension</b>	146 x 102 mm		
Environment			
<b>Operating Humidity</b>	10% to 95% RH, Non-Condensing	<b>Operating Temperature</b>	0°C to 60°C

**Storage Temperature** -40°C to 70°C

**Accessory**

**Optional Accessory** Driver CD & Manual (Optional)  
Adapter (Optional)

**Power**

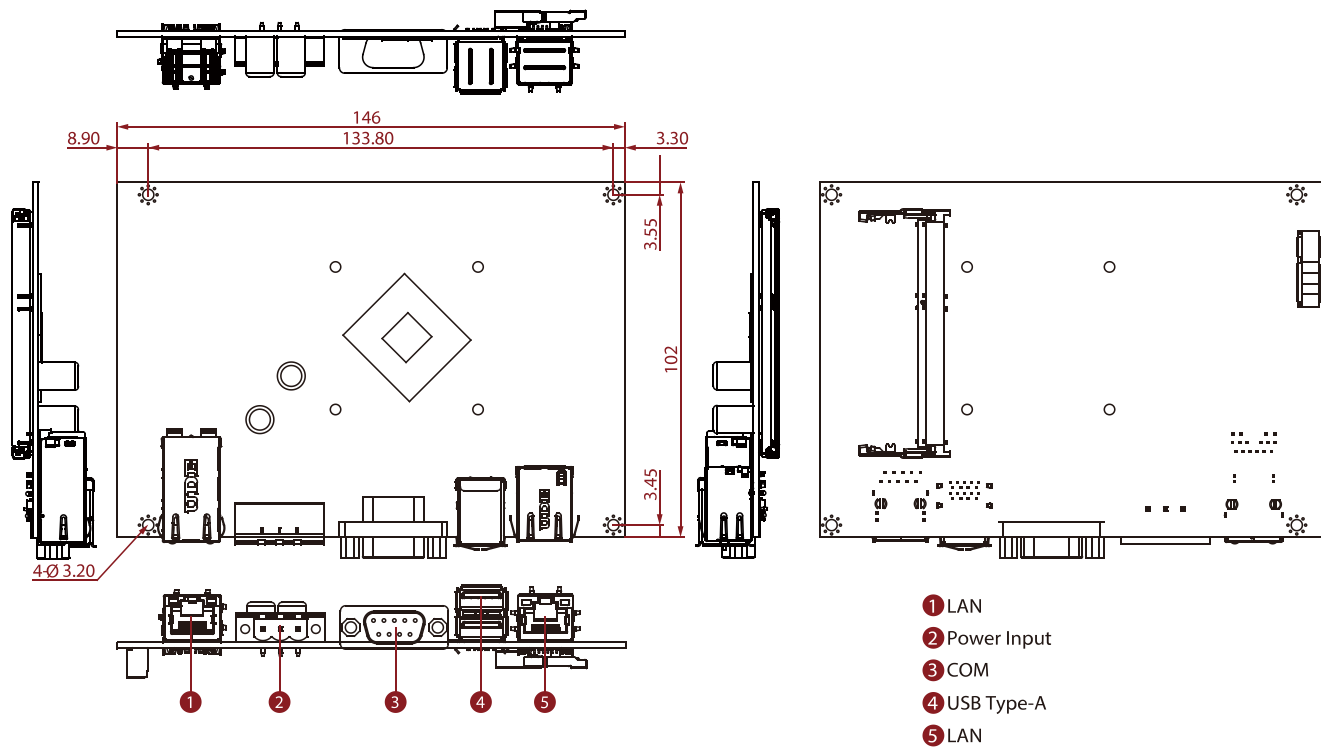
**Power Rating** 12V DC

**Adapter**

12V 50W

**POE** PoE (PD): follows IEEE 802.3at (25 W)

**DIMENSIONS** UNIT:MM



**NOTE**

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.