

# 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

## INTRODUCTION

Winmate x86 Embedded Board Series combines compact design with powerful performance, featuring multiple advanced processor options. Designed with industrial-grade components, advanced and versatile customization capabilities, this Embedded Board ensures reliable operation in harsh environments with a wide power input range of 9-36V and extended temperature tolerance (-40 to +85°C). Ideal for space-constrained industrial applications, they deliver seamless integration and optimized performance.

## 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<br>8GB (Optional) |
| <b>Storage</b>          | 1 x M.2 2242 B-key SSD 128GB<br>256GB (Optional)<br>512GB (Optional)           | <b>Ethernet controller</b> | 2 x Intel® Ethernet Controller                     |
| <b>Operating System</b> | Windows 10 IoT Enterprise (64 bit) (Optional)<br>Linux Ubuntu 20.04 (Optional) | <b>WLAN</b>                | Support (Optional)                                 |
| <b>BT</b>               | Support (Optional)                                                             |                            |                                                    |

### IO Ports

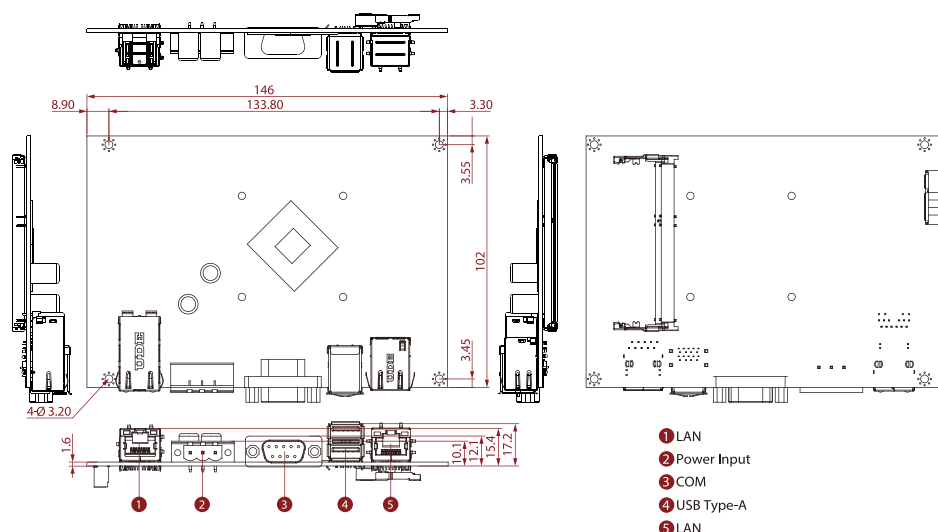
|                       |                                                                                         |                 |                                                                  |
|-----------------------|-----------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------|
| <b>Power Input</b>    | 1 x 12V DC, 3-Pin Terminal Block                                                        | <b>USB Port</b> | 1 x USB3.2 Gen1x1 (Type-A)<br>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>Expansion Port</b> | 1 x M.2 2242 B-key Slot (for SATA II SSD)<br>1 x M.2 2230 E-Key Slot (for Wi-Fi module) | <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<br>1 x 4pin(1x4) for 1 x USB 2.0<br>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<br>2 x 40pin FPC connector Co-lay for LVDS(CON3, CON4) (Optional)<br>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             |

|                      |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Backup battery       | 1 x 2pin(1x2) for RTC battery | Audio                 | 1 x 4pin(1x4) for Digital Mic                                                                                                                                                                                                                                                                                                                                                                                                             |
| BIOS debug           | 1 x 20pin(2x10) for LPC debug |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Certification</b> |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Certification        | CE, FCC                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Mechanical</b>    |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dimension            | 146 x 102 mm                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Environment</b>   |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operating Humidity   | 10% to 95% RH, Non-Condensing | Operating Temperature | 0°C to 60°C                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Temperature  | -40°C to 70°C                 |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Accessory</b>     |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Accessory            | 1 x Installation Guide        | Optional Accessory    | 1 x SATA cable (94H007Z070K0) (Optional)<br>1 x SATA Power cable (94HE08Z150E0) (Optional)<br>1 x COM cable (94G309E100E1) (Optional)<br>1 x 2-Port USB 2.0 Type A cable (94E808E080K0) (Optional)<br>1 x 12V 84W Adapter (922D084W12V1) (Optional)<br>1 x Power cord (Varies by country) (Optional)<br>1 x CPU Heatspreader (98K000A000N2) (Optional)<br>1 x Membrane (98K000A000N1) (Optional)<br>2 x Speaker (612620000007) (Optional) |
| <b>Power</b>         |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power Rating         | 12V DC                        | 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.

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při  
objednávce nad 10 000 Kč bez DPH  
nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače  
s možností jejího prodloužení  
až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují  
za nižší ceny. Výše slevy se odvíjí  
od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme  
rozšířenou podporu a servis s garancí  
výměny zařízení do 48 hodin.