

# IB70

## Intel® Celeron® N2930 Mini ITX Embedded Board



### KEY FEATURES

- Intel® Celeron® Bay Trail-M N2930 1.83GHz Processor
- Mini ITX Form Factor, industrial sbc design
- DDR3L 1066MHz dual-channel SO-DIMM supported up to 8GB
- 12V DC Power Input
- Integrated VGA, Dual-Channel 24-bit LVDS, eDP(Optional),HDMI(Optional)
- Supports 1xSATA II, 4xCOM, 1xUSB 3.0, 7xUSB 2.0 12-Pin GPIO Connector, 2xMini PCIe Slot

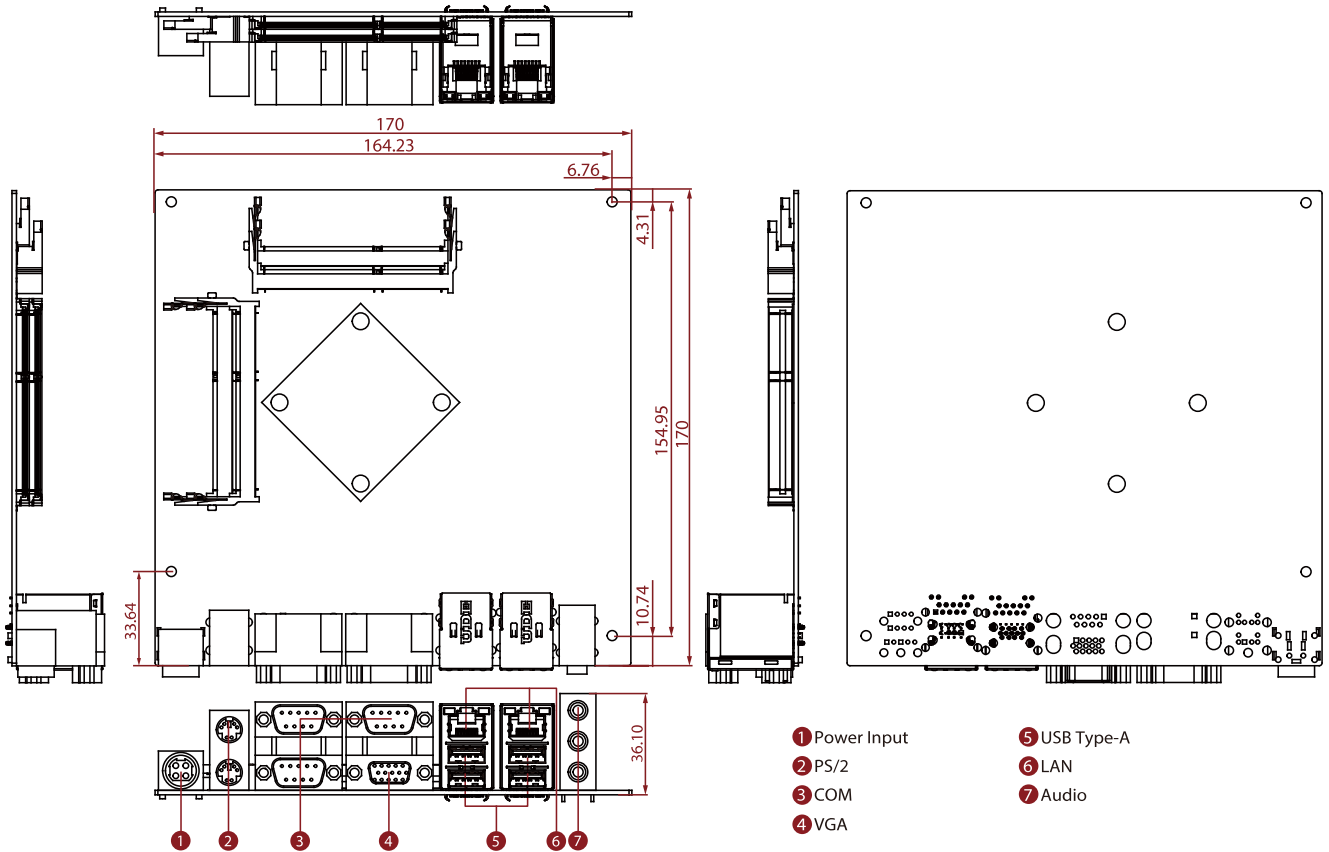


### SPECIFICATIONS

System Specification	
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Storage</b>	1 x mSATA SSD 64GB mSATA SSD up to 512GB (Optional) 1 x SATA II for 2.5" HDD (Optional)
<b>Operating System</b>	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)
<b>Memory</b>	2 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
<b>Ethernet controller</b>	2 x Intel® Ethernet Controller I210-AT
IO Ports	
<b>Power Input</b>	1 x 12V DC, Din4 pin connector
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232) 2 x RS232
<b>Audio</b>	Mic in Line in Line out
<b>PS/2</b>	2 x PS/2
<b>USB Port</b>	1 x USB3.0 (Type-A) 3 x USB2.0 (Type-A)
<b>Video</b>	1 x VGA
<b>LAN</b>	2 x Giga LAN RJ45 Connector
Internal IO Ports	
<b>Power input</b>	1 x 4pin(2x2) for 12V DC in
<b>Power output</b>	1 x 2pin(1x2) blue wafer for 3.3V DC out 2 x 2pin(1x2) red wafer for 5V DC out 1 x 2pin(1x2) yellow wafer for 12V DC out
<b>USB</b>	2 x 8pin(2x4) for 4 x USB 2.0
<b>Serial port</b>	1 x 10pin(2x5) for RS232
<b>Display</b>	1 x 40pin DF13 connector for LVDS 1 x 30pin DF13 connector for eDP (Optional) 1 x 18pin FFC connector for HDMI (Optional)
<b>Backlight</b>	1 x 7pin(1x7) for panel backlight
<b>SATA</b>	1 x SATA II 1 x 8pin(2x4) for SATA power
<b>DIDO</b>	1 x 14pin(2x7) for Digital input/output
<b>VR</b>	1 x 3pin(1x3) for Digital panel backlight brightness control 1 x 5pin(1x5) VRD debug port
<b>Fan</b>	1 x 3pin(1x3) for CPU Fan 1 x 3pin(1x3) for System Fan
<b>OSD</b>	1 x 10pin(2x5) for OSD control
<b>Speaker</b>	2 x 2pin(1x2) for Speaker
<b>LPT</b>	1 x 20pin(2x10) for Parallel Port(LPT)
<b>Backup battery</b>	1 x RTC battery holder
<b>BIOS debug</b>	1 x 10pin(2x5) for LPC debug
Certification	
<b>Certification</b>	CE, FCC

Mechanical			
Dimension	170 x 170 mm		
Environment			
Operating Humidity	30% to 90% (non-condensing)	Operating Temperature	-20~60°C
Storage Temperature	-25~65°C		
Accessory			
Accessory	Manual & Driver CD		

## 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.