

# IE32

## Intel® Celeron® N6211 x86 Embedded Motherboard



### KEY FEATURES

- 3.5" Form Factor (146 mm x 102 mm)
- 1 x DDR4 SO-DIMM 3200 MHz, max. 16GB
- 2 x Gigabit Ethernet
- Intel® SoC Integrate
- Intel® Celeron® Elkhart Lake N6211 Processor
- Supports 1 x SATA III, 3 x COM, 2 x USB 3.2 Gen 2x1, 4 x USB 2.0

### 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>WLAN</b>	Support (Optional)	<b>BT</b>	Support (Optional)
<b>Processor</b>	Intel® Celeron® N6211 ( up to 3.0GHz)	<b>Memory</b>	4GB(Default) (Default) 8GB (Optional) 16GB (Optional)
<b>Storage</b>	128GB SSD(Default) (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB 1 x SATA III for 2.5" SSD/HDD (Optional)	<b>Ethernet controller</b>	2 x Intel® Ethernet Controller
<b>Security</b>	TPM 2.0	<b>Operating System</b>	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 22.04 (Optional)

#### IO Ports

<b>Power Input</b>	1 x 12V DC, 2.5φ DC jack	<b>USB Port</b>	2 x USB3.2 Gen2x1 (Type-A)
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232)	<b>Video</b>	1 x HDMI 2.0 (Optional)
<b>Expansion Port</b>	1 x M.2 2242 B-Key Slot (for SATA III SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module)	<b>LAN</b>	2 x 2.5 Giga LAN RJ45 Connector

#### Internal IO Ports

<b>Power input</b>	1 x 2pin(1x2) for 12V DC in	<b>Power output</b>	1 x 2pin(1x2) blue wafer for 3.3V DC out 1 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>	2 x 10pin(2x5) for RS232
<b>Display</b>	1 x 40pin DF13 connector for LVDS (Default)	<b>Backlight</b>	1 x 7pin(1x7) for panel backlight

	1 x 30pin DF13 connector for eDP (Optional)		
<b>SATA</b>	1 x SATA III 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 3pin(1x3) VR/Software brightness switch jumper 1 x 3pin(1x3) PWM/DC brightness switch jumper 1 x 3pin(1x3) 3.3V/5V PWM Level switch jumper	<b>Fan</b>	1 x 3pin(1x3) for CPU Fan
<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 12pin(2x6) for Line in/Line out/ Mic in

### Certification

<b>Certification</b>	CE, FCC
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### Mechanical

<b>Dimension</b>	146 x 102 mm
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### Environment

<b>Operating Humidity</b>	10% to 95% RH, Non-Condensing	<b>Operating Temperature</b>	0°C to 60°C
<b>Storage Temperature</b>	-40°C to 70°C		

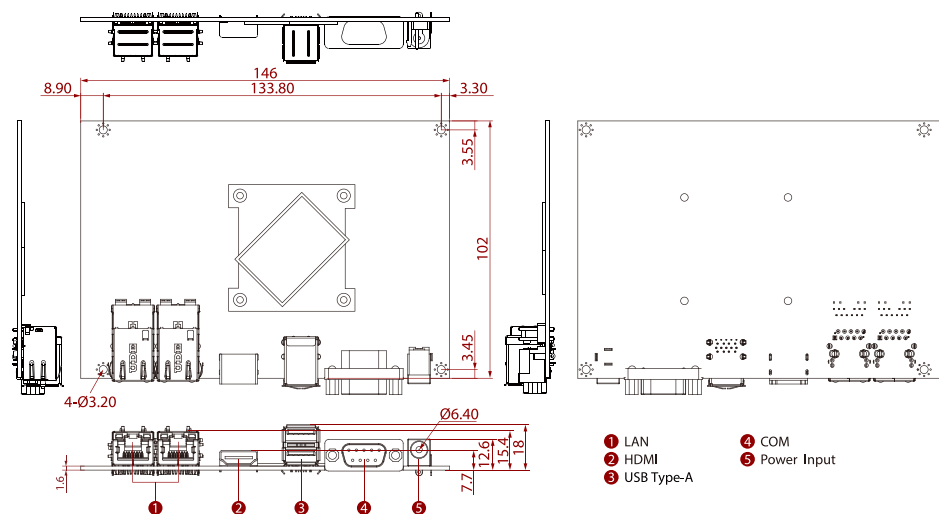
### Accessory

<b>Accessory</b>	1 x Installation Guide	<b>Optional Accessory</b>	1 x SATA cable (94H007Z070K0) (Optional) 1 x SATA Power cable (94HE08Z150E0) (Optional) 1 x COM cable (94G309E100E1) (Optional) 1 x 2-Port USB 2.0 Type A cable (94E808E080K0) (Optional) 1 x 12V 84W Adapter (92D084W12V1) (Optional) 1 x Power cord (Varies by country) (Optional) 1 x CPU Heatspreader (98K000A000N2) (Optional) 1 x Membrane (98K000A000N1) (Optional) 2 x Speaker (61262000007) (Optional)
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### Power

<b>Power Rating</b>	12V DC in
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## 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.