

IB32

Intel® Celeron® N2930 x86 Embedded Motherboard



KEY FEATURES

- 3.5" Form Factor (146 mm x 102 mm), x86 Embedded motherboard
- Intel® Celeron® N2930 1.83GHz Processor
- Intel® ATOM SoC Integrated
- Integrated VGA, Dual-channel 24-bit LVDS, HDMI
- 1 x DDR3L SO-DIMM 1066 MHz, max. 8GB
- 2 x Gigabit Ethernet
- Supports 1 x SATA II, 4 x COM, 1 x USB 3.0, 5 x USB 2.0 12 x GPIO, 1 x 1394b, 1 x Mini PCIe slot



SPECIFICATIONS

System Specification	
Processor	Intel Celeron N2930 1.83GHz (up to 2.16GHz)
Storage	1 x mSATA SSD 128GB. mSATA SSD up to 512GB. (Optional)
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)
Memory	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
Ethernet controller	2 x Intel® Ethernet Controller
IO Ports	
Power Input	1 x 12V DC, 2.5φ DC jack
Serial Port	1 x RS232/422/485 (Default RS232)
LAN	2 x Giga LAN RJ45 Connector
USB Port	1 x USB3.2 Gen1x1 (Type-A) 1 x USB2.0 (Type-A)
Video	1 x HDMI 1.4 (Optional)
mini PCIe	1 x Mini PCIE
Internal IO Ports	
Power input	1 x 2pin(1x2) for 12V DC in
Power output	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
USB	2 x 8pin(2x4) for 4 x USB 2.0
Serial port	3 x 10pin(2x5) for RS232
Display	1 x 40pin DF13 connector for LVDS 1 x 10pin(2x5) for VGA (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
SATA	1 x SATA II 1 x 8pin(2x4) for SATA power
DIDO	1 x 14pin(2x7) for Digital input/output
VR	1 x 3pin(1x3) for Digital panel backlight brightness control 1 x 5pin(1x5) VRD debug port
Fan	1 x 3pin(1x3) for CPU Fan
OSD	1 x 10pin(2x5) for OSD control
Speaker	2 x 2pin(1x2) for Speaker
Backup battery	1 x 2pin(1x2) for RTC battery
Audio	1 x 12pin(2x6) for Line in/Line out/ Mic in
BIOS debug	1 x 10pin(2x5) for LPC debug
Certification	
Certification	CE, FCC
Mechanical	
Dimension	146 x 102 mm
Environment	
Operating Humidity	10% to 95% RH, Non-Condensing
Operating	0°C to 60°C

Temperature

Storage Temperature -40°C to 70°C

Accessory

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

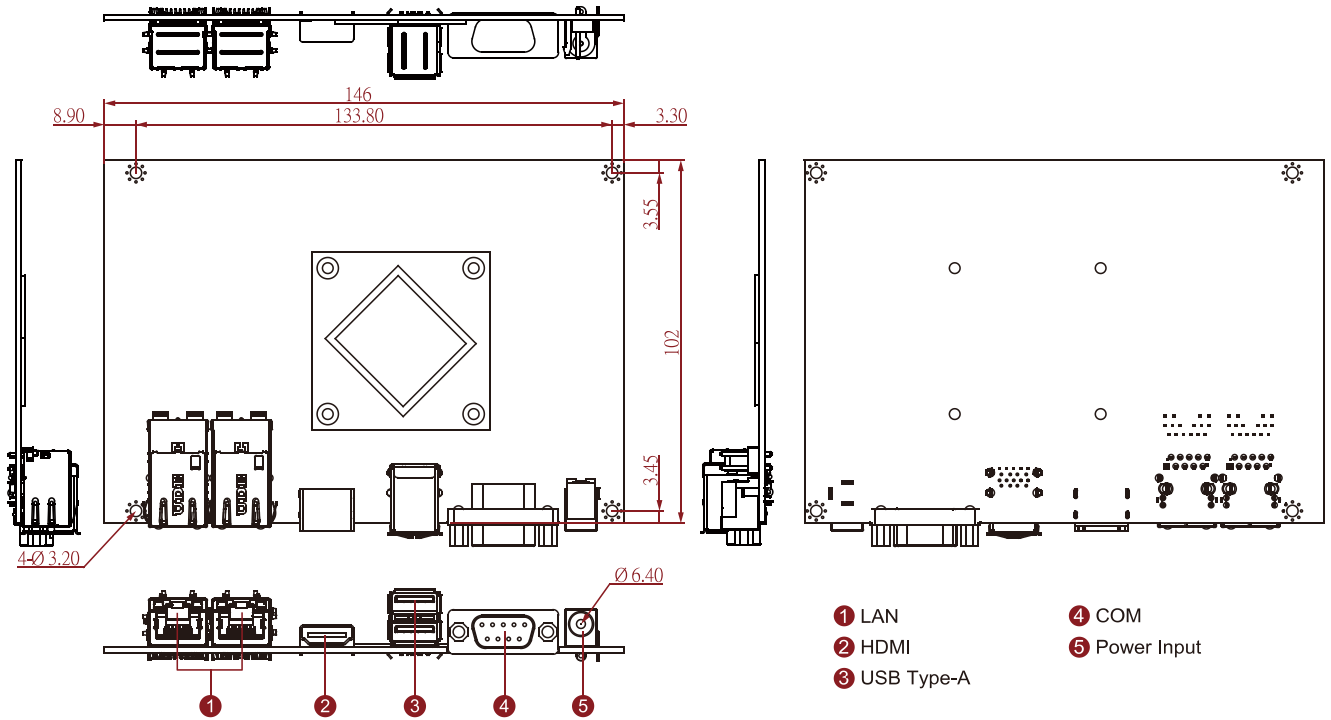
Power

Power Rating 12V DC

Adapter

12V 50W

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.