NBP-01

Fanless Embedded Box-PC with Intel® Celeron® Processor J6412, ideal choice for industrial edge computing

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Features

- Intel® Celeron® Processor J6412 (Elkhart Lake) 2.0 GHz,
- (up to 2.6 GHz)
- 2 x SO-DIMM, DDR4 3200MHz, up to 32GB
- Ideal choice for industrial edge computing
- Supports WiFi and 4G LTE wireless data transmission
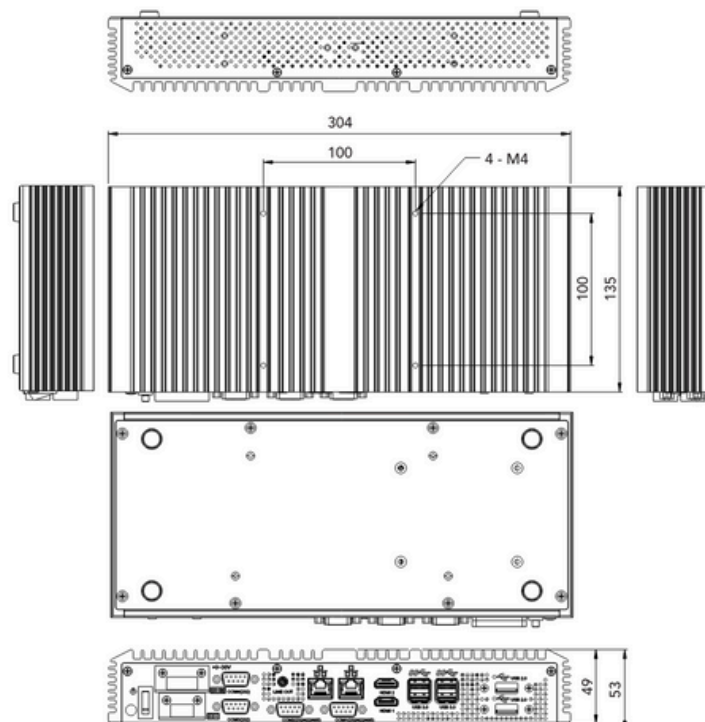- Dual-Screen HDMI 2.0 output with 4K resolution support

Novakon's fanless embedded Box PC - NBP Series: The ideal choice for industrial edge computing.

The NBP Series by Novakon delivers a robust solution for industrial edge computing. Equipped with Intel® Celeron® Elkhart Lake J6412, Alder Lake N Series N97 quad-core processors, or Core™ i3-N305 8-core processors from the 11th and 12th generations, it offers high performance with low power consumption. The fanless design makes the series ideal for demanding industrial environments. The aluminum housing ensures durability and stability. Additionally, with 4 COM ports, 2 GbE Ethernet ports, and dual-screen HDMI outputs, it provides versatile deployment options. Embedded Box PC solutions like the NBP Series are crucial for reliable and efficient industrial computing tasks. Moreover, support for WiFi and 4G LTE enables flexible wireless data transmission, further expanding its utility.

Unlocking efficiency and reliability with NBP Series Embedded Box PC

Without an efficient Embedded Box PC like the NBP Series, industrial applications face challenges in data acquisition, automation, and smart manufacturing. Traditional systems may lack the required computing power, connectivity options, and robustness for demanding industrial environments, leading to inefficiencies, downtime, and compromised performance. The NBP Series enables industries to overcome these hurdles, achieving enhanced efficiency, reliability, and productivity in their operations. Thus, the NBP Series provides a critical solution for modern industrial requirements and contributes to the successful implementation of Industry 4.0 initiatives.

Dimension (in mm)

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SYSTEM	
CPU	Intel® Celeron® J6412 2.0GHz, quad-core, 4 threads, (up to 2.6GHz)
RAM	2 x SO-DIMM, DDR4 3200MHz, up to 32GB
HDD	1 x 2280 M.2 M-Key (PCIe x2, SATA 6Gb/s)
Software	iFace-Designer® Runtime, Siemens Industrial Edge Runtime, Siemens Industrial Management
Expansion Slot	1 x Full-size mini PCIe with optional WIFI and 4G LTE
Operating System Support	Windows 10 IoT, Debian 11
INTERFACE	
Ethernet	2 x GbE Ethernet ports
USB	4 x USB 3.2 Gen 2 x USB 2.0
COM	2 x RS-232/422/485 Selectable under BIOS 2 x RS-232
Video	2 x HDMI 2.0
Audio	1 x Line Out
Power Connector	1 x 2 pins terminal block for external power switch 1 x 3 pins terminal block power connector 1 x power switch on/off
ENVIRONMENTAL	
Chassis Material	Aluminum front bezel and steel chassis
Thermal Design	Fanless
Power Input Range	DC 9~36V
Operating Temperature	0~50° C (32~122° F)
Storage Temperature	-20~60° C (-4~140° F)
Storage Humidity	10 to 90% (non-condensing)
Dimensions	304(B) x 135(H) x 49(T) mm
Net Weight	2.1 kg
Mounting	VESA mounting 100x100mm
Certification	CE / FCC