



IBOX 1112N v.1 - Modern industrial MiniPC with a powerful Intel Celeron J6412 processor, 3x LAN and 6x USB



Category:	MiniPC Industry
Manufacturer:	Mobikator
Supported OS:	Windows 11, Linux
Installed OS:	Windows 11 PRO (optional)
Chipset:	Intel Elkhart Lake-U
CPU Support:	Intel Celeron
Installed CPU:	Intel Celeron J6412 (4x 2.60GHz)
Graphic Card:	Intel UHD Graphics
Memory Support:	DDR4
Installed Memory:	None 8GB* 16GB* (optional)
Storage (HDD) Support:	SSD M.2 HDD
Installed Storage (HDD):	None 256GB* 512GB* 1TB* (optional)
IP Norm:	None
Temp:	-20°C ~ +60°C
Storage temperature:	-20°C ~ +60°C

Humidity:	5% - 95%
Others:	Color black
LAN:	3x Intel i2256-V 2.5G LAN
Wireless LAN card:	Option
3G:	No
4G LTE:	No
Bluetooth:	No
Rear Panel (ports):	3x LAN 2x DP HDMI
Front Panel (ports):	SIM slot 3x USB 2.0 3x USB 3.0 COM
Expansion:	-----
Power:	12V
Watch Dog Timer:	Yes
CD/DVD Drive:	None
TV Tuner:	No
Dimensions:	150 x 126.5 x 45mm
Fanless:	Yes
Weight:	0,84kg

Product from the Archive - production finished

IBOX 1112N



SPECIFICATION

CONNECTIVITY AND COMMUNICATION

RESISTANCE AND DURABILITY

APPLICATION

AVAILABLE VERSIONS

The IBOX 1112N model is an advanced industrial unit designed for reliable operation in harsh environments and high-dust conditions. Thanks to its passive

cooling system and a metal enclosure that effectively dissipates heat, the device guarantees completely silent operation with no moving parts. Based on the Intel Elkhart Lake architecture, the computer supports 24/7 continuous operation. The Auto Power On function makes it an indispensable solution for both demanding industrial automation and modern office spaces.

Small dimensions



The compact dimensions of the design allow for significant space savings and easy movement of the computer.

Lightweight construction



The low weight of only 1.45 kg makes the device easy to fit in a bag or backpack when traveling.

Efficient processor



Thanks to the use of a powerful Intel Celeron J6412 processor, the user receives smooth operation of multiple tasks simultaneously.

Wireless Networking

(option)



The integrated Wi-Fi module guarantees instant wireless connection to the network anywhere.

Quick Start



A modern M.2 SSD drive that dramatically reduces system and application loading times.

Passive Cooling



Maintains the highest level of performance and absolute silence during everyday use.

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SPECIFICATION

IBOX 1112N	
Processor	Intel Celeron J6412
Operating system	Supported: Windows 11, Linux

IBOX 1112N

RAM DDR4	None 8GB * 16GB * (optional)
Hard Disk SSD M.2	None 256GB * 512GB * 1TB * (optional)
Communication	WLAN (WiFi6) : Intel-AX210(M.2)* (optional) WLAN (WiFi5) : RTL8821AE-DUAL * (optional) LAN : 3x Intel i2256-V 2.5G LAN
Connectors - front	Slot Sim 3x USB 2.0 3x USB 3.0 RS232
Connectors - rear	3x LAN 2x DP HDMI
Dimensions	150 x 126.5 x 45mm
Weight	0.84kg
Graphics card	Intel UHD Graphics
Colors available	Black (Metal Housing)

* Optional equipment available only in the appropriate product versions or upon request.



Detailed device specification is available in the "Technical data".

Efficient Processor

The heart of the IBOX 1112N unit is the modern, energy-efficient Intel Celeron J6412 processor. Four physical cores ensure smooth multitasking and high system performance. The applied architecture allows for intelligent cache

resource management, which optimizes communication with DDR4 memory and minimizes latency. As a result, the computer guarantees exceptional responsiveness, essential in advanced industrial control and monitoring systems.

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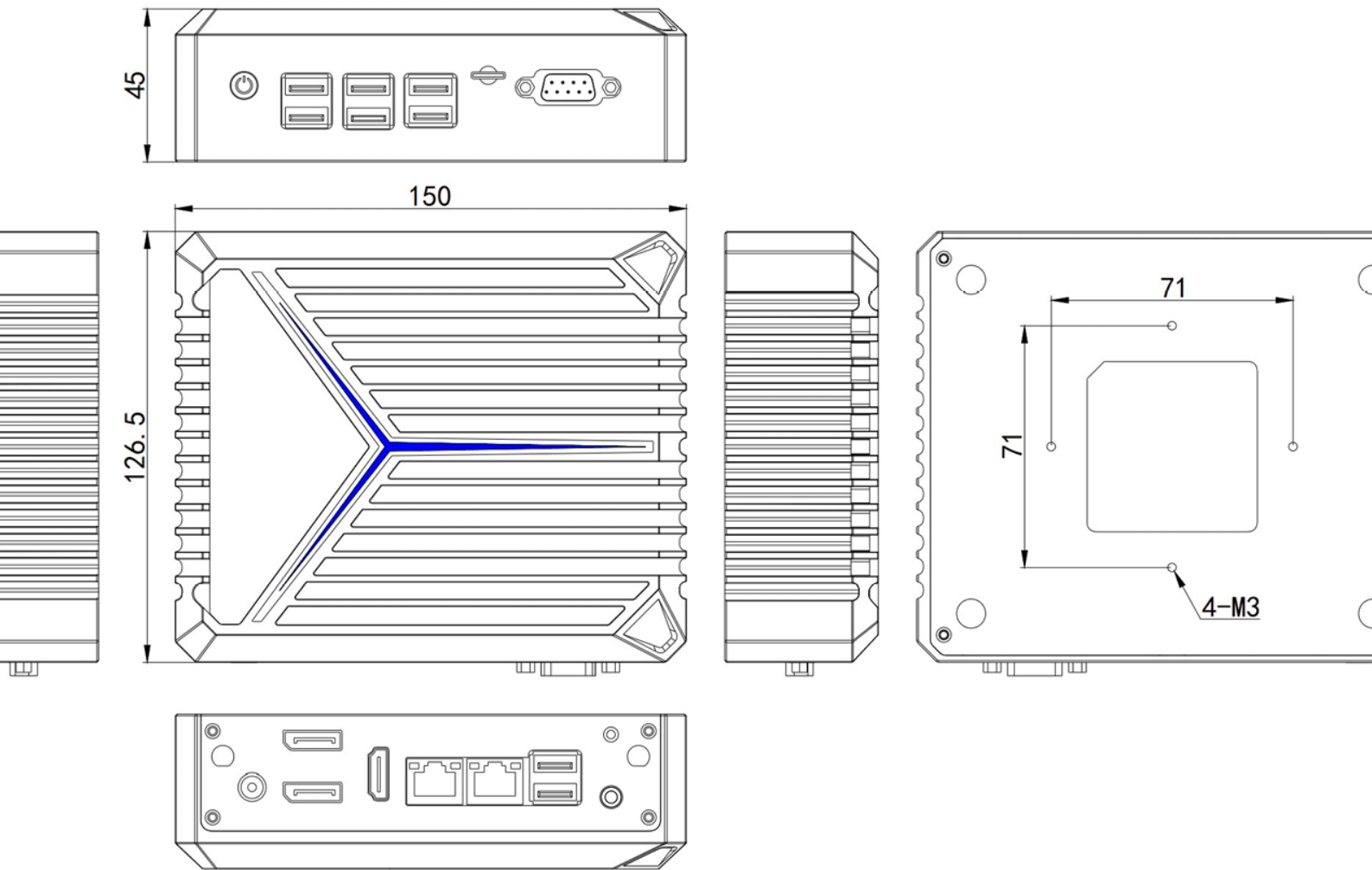
Passive Cooling

The innovative fanless design of the IBOX 1112N model is based on a durable, metal chassis that doubles as a heat sink. By efficiently dissipating heat directly into the environment, the need for fans and other moving parts has been eliminated. This solution not only guarantees completely silent operation but also drastically reduces the risk of mechanical failure. The sealed enclosure provides high resistance to dust and contaminants while maintaining the thermal stability of the energy-efficient Intel Elkhart Lake processors.

Dimensions

The compact, metal enclosure of the IBOX 1112N makes this unit a perfect fit for both modern offices and harsh industrial environments. Thanks to its fanless design, the device can operate in any orientation. Full VESA compatibility allows for the quick mounting of the computer to the back of a monitor, maximizing workspace efficiency and creating a clean, All-in-One style setup.





Dimensions	150mm x 126.5mm x 45mm
Net weight	840g

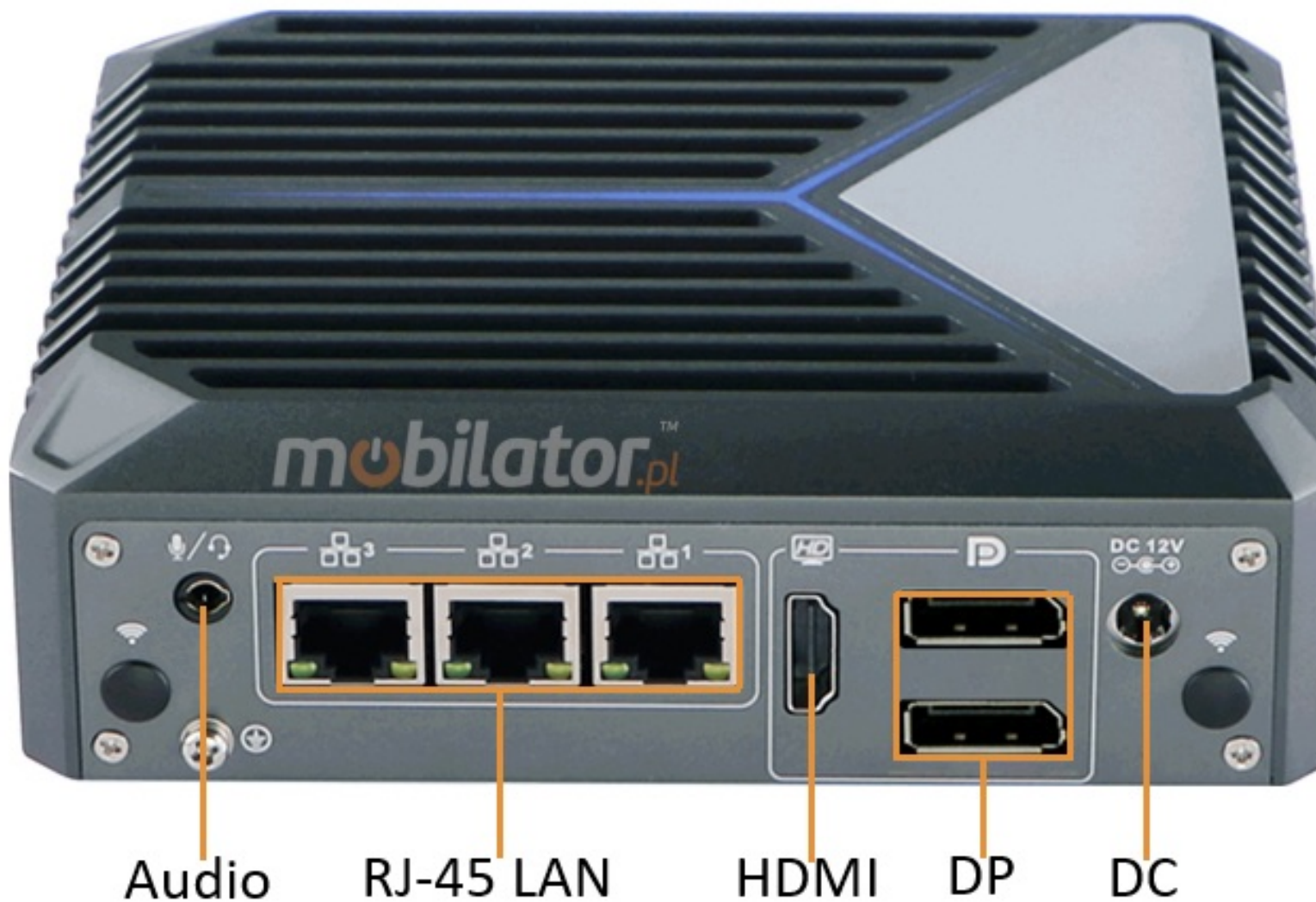
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Connectors and Buttons

The versatile IBOX 1112N features an extensive front panel that allows for instant connection of external accessories in demanding work environments. The

durable metal front panel, in addition to the power switch and LED indicators, houses a modern Sim slot, three high-performance USB 3.0 ports, and three standard USB 2.0 ports. The unit's designers also included audio inputs for a microphone and headphones.





The professional IBOX 1112N computer features a built-in DC IN power input, a Phoenix terminal, three RJ45 LAN network connectors and one HDMI video outputs. This design facilitates precise adaptation of the unit to the stringent technological requirements of various industrial sectors.

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CONNECTIVITY AND COMMUNICATION

WiFi5* wireless network | (WiFi 6)*

The IBOX 1112N is equipped with an M.2 2230 (E Key) slot supporting modern Wi-Fi protocols, ensuring a stable and high-speed wireless connection. This

architecture provides lightning-fast data transfer and high interference immunity, allowing for seamless operation even in heavily congested network environments. As a result, the unit is a perfect fit for real-time data exchange systems, both on production lines and in modern offices..

* The device is available in a configuration with the WiFi 6 or WiFi5 option.

Wired LAN

The multi-purpose IBOX 1112N features two integrated Intel Intel i2256-V 2.5G LAN network cards that support the 2.5GbE LAN standard. This solution allows for twice the throughput of a traditional Gigabit Ethernet interface, resulting in instant packet transmission and stable connectivity in complex industrial environments. The three RJ45 ports enable parallel operation of separate networks or the creation of a redundant connection, directly improving the security and operational continuity of the entire system.

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RESISTANCE AND DURABILITY

Mechanical Damage

The combination of passive fanless cooling with a high-performance M.2 SSD ensures that the IBOX 1112N is entirely free of moving parts. This architecture guarantees increased resistance to vibrations, shocks, and mechanical damage. The absence of fans and traditional hard drives allows for stable operation in

harsh industrial conditions, ensuring the full security of stored data and key system components.



A key feature of the durable IBOX 1112N is its metal construction, which acts as a heat sink, ensuring highly efficient heat dissipation. The specialized design of the housing, with its specific dimensions, effectively shields the internal components from external factors and enables stable operation in demanding and harsh operating environments.

Extreme Temperatures

The IBOX 1112N is fully adapted for continuous operation across a wide temperature range from -10°C to 60°C. Thanks to the use of a metal housing with high thermal conductivity and a passive cooling system, the unit effectively dissipates the heat generated by the Intel Celeron processor, even under maximum load. This design guarantees full operational stability in locations exposed to rapid temperature fluctuations, where standard solutions fail.

Operating Temperature	-10°C to 60°C
Humidity	5% to 95%

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APPLICATIONS

Retail and Services

The IBOX 1112N is an advanced tool supporting commercial and logistical operations. Thanks to its compact design, the unit is perfect for workstations with limited space, facilitating invoicing processes and document recording. The fanless design within a metal housing guarantees completely silent operation, which is crucial at direct customer service points. The robust construction allows for reliable use not only in stores and warehouses but also as a component of onboard systems in delivery vehicles.



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Warehouse and Logistics

Thanks to the high processing power of the Intel Celeron J6412 processor, the IBOX 1112N enables the simultaneous handling of multiple Warehouse Management Systems (WMS). The rugged enclosure guarantees long-term, failure-free operation in high-dust environments, ensuring full operational stability across a wide temperature range. It is a reliable solution dedicated to

continuous use in logistics centers and transshipment points.



Transportation and Automotive

The IBOX 1112N is a unit fully adapted for operation in the transport sector. Thanks to its wide range of accepted DC IN input voltage, the computer integrates perfectly with the electrical installations of cars, buses, trains, and aircraft. The device provides a stable foundation for passenger information systems and real-time onboard diagnostics. The compact, metal housing allows for installation in tight technical recesses, while the absence of moving cooling

elements guarantees reliability even under continuous vibration and shock.



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 More photos in full resolution available in the "Gallery".

AVAILABLE VERSIONS

The customizable IBOC 1112N is available in numerous hardware versions, allowing for precise selection of the unit to precisely meet specific project needs.

Selecting a specific configuration number from the provided list automatically redirects you to a detailed technical description of that variant. For requirements beyond the standard range, a custom specification can be developed to meet the user's unique requirements.