



MobiPad nBOX MV3-2LAN v.4 - Rugged Mini PC with WiFi 6E connectivity, 2x RJ45 Gigabit LAN, 1x RS232, 1x Display Port for industrial applications



Category:	MiniPC Industry
Manufacturer:	Mobikator
Supported OS:	Windows 11, Windows 10, Linux
Installed OS:	Windows 11 PRO (optional)
Chipset:	Intel Twin Lake-N
CPU Support:	Intel Twin Lake-N series processors
Installed CPU:	Intel N150
Graphic Card:	Intel Graphics
Memory Support:	DDR4
Installed Memory:	8GB RAM
Storage (HDD) Support:	SSD M.2 - NVMe
Installed Storage (HDD):	512GB SSD M.2 - NVME
IP Norm:	None
Temp:	-20°C ~ +55°C
Storage temperature:	-40°C ~ +70°C
Humidity:	10% - 90%
Others:	Color black
LAN:	2x RJ45: Gigabit LAN, support 10/100/1000Mbps
Wireless LAN card:	WiFi 6E

3G:	No
4G LTE:	No
Bluetooth:	Bluetooth 4.2
Rear Panel (ports):	1× HDMI 2.0b 1× DisplayPort 1.4a 2× LAN 1× RS232 1× DC-IN
Front Panel (ports):	4× USB 3.0 1× Micro SD 1× MIC IN 1× Line-out
Expansion:	Adapter HDMI cable VESA mount WiFi Antenna
Power:	100-240V AC - 12V DC / 2.5A
Watch Dog Timer:	No
CD/DVD Drive:	None
TV Tuner:	No
Dimensions:	145 x 127.5 x 34 mm
Fanless:	Yes
Weight:	1,1kg

601,29 €

net price: 488,86 €

MobiPad nBOX MV3- 2LAN



SPECIFICATION

CONNECTIVITY AND COMMUNICATION

RESISTANCE AND DURABILITY

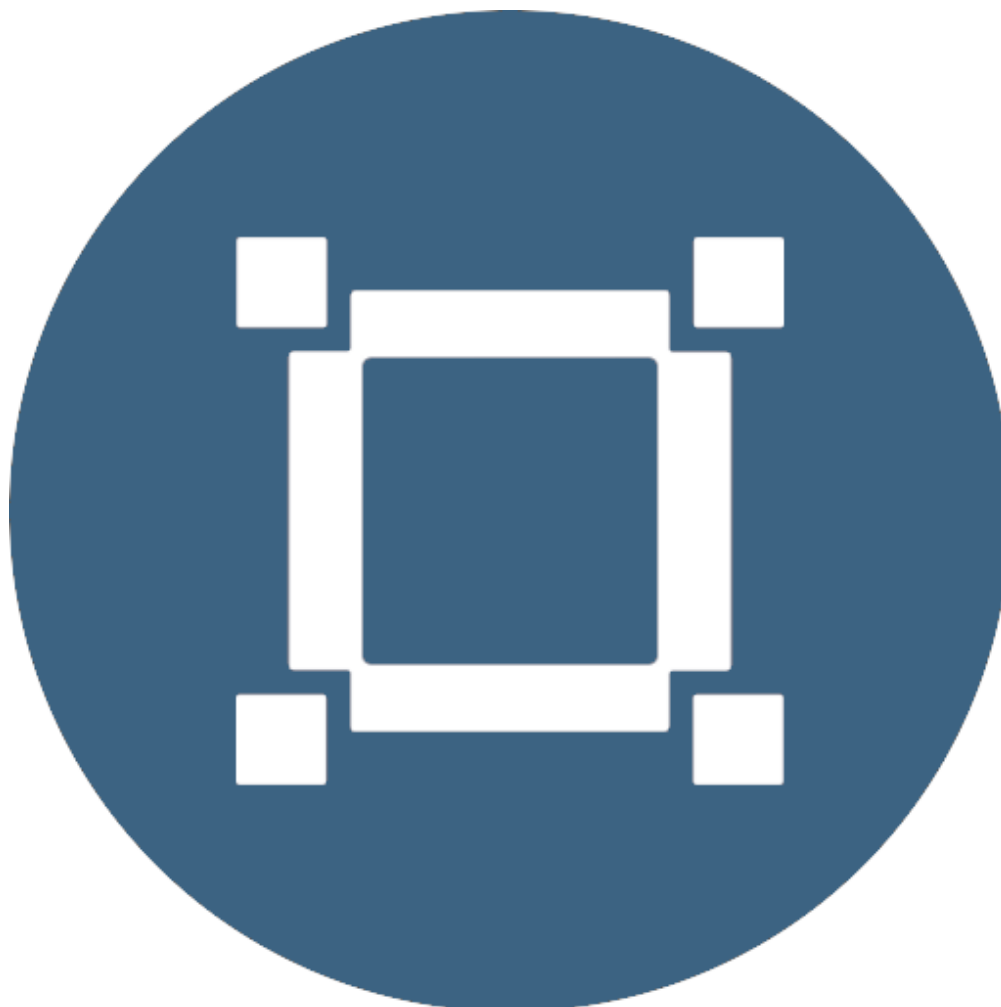
APPLICATION

AVAILABLE VERSIONS

This modern, compact industrial mini PC is highly durable and able to withstand harsh and dusty environments while offering completely silent operation regardless of load. The robust MobiPad nBOX MV3-2LAN model utilizes passive heat dissipation through a metal chassis, effectively cooling the quad-core, quad-thread Intel N150 processor without the need for active fans. This functional unit is designed for uninterrupted operation, supported by features such as automatic restart after power restoration and Wake-On-Lan support. The

integrated Intel Graphics chip and the available RS232 port make this device a reliable base for industrial control systems and professional workstations requiring high-performance.

Small dimensions



The compact metal chassis, measuring 145 x 127.5 x 34 mm, significantly saves space in the workstation while maintaining full protection of internal components.

Lightweight construction



The device's low net weight of 1.1 kg combined with its compact housing allows for easy transport and installation anywhere.

Efficient processor



The use of a modern Intel N150 processor with quad-core architecture translates into high responsiveness of this multitasking device while simultaneously performing complex system operations.

Wireless Networking



The use of innovative wireless technologies in this versatile mini PC allows for reliable and fast data transmission thanks to support for WiFi ac and WiFi ax (6/6E) standards.

Quick Start



Advanced data storage solutions, including support for M.2 2280 SATA and NVMe SSD drives, ensure lightning-fast operating system boot and immediate access to installed applications.

Passive Cooling



The complete elimination of moving mechanical parts from the interior ensures completely silent operation of this durable device in all conditions.

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SPECIFICATION

MobiPad nBOX MV3-2LAN

Processor	Intel Twin Lake-N N150
Operating system	Supported: Windows 11, Windows 10, Linux

MobiPad nBOX MV3-2LAN

RAM DDR4	8GB
Hard Disk SSD M.2	512GB
Communication	WiFi 6E Bluetooth 4.2
Connectors - front	1x Micro SD 4x USB 3.0 microphone input (MIC IN) line output (Line out)
Connectors - rear	1x HDMI 2.0b 1x DisplayPort 1.4a 2x LAN 1x RS232 1x DC IN
Dimensions	145 x 127.5 x 34mm
Weight	1.1kg
Graphics card	Intel Graphics
Colors available	Black (Metal Housing)



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

Efficient Processor

The efficient MobiPad nBOX MV3-2LAN is powered by the modern Intel N150 processor, which provides four cores and four threads for efficient and parallel processing of multiple operations. This processor's architecture ensures smooth operation while maintaining low power consumption. Combined with support for DDR4 memory, this ensures adequate throughput and system stability during advanced industrial processes.

Passive Cooling

The robust MobiPad nBOX MV3-2LAN utilizes a fanless passive cooling system based on efficient heat dissipation through a durable metal housing. Thermal energy generated by the processor is transferred directly to the device's external structure, eliminating fans and other moving mechanical components.

Dimensions

The compact, durable metal housing makes the compact MobiPad nBOX MV3-2LAN ideal for both modern office spaces and demanding industrial environments. Its streamlined design, measuring 145 x 127.5 x 34 mm, allows this unit to maintain its full potential in spaces with limited space while guaranteeing the durability necessary for professional technical use.



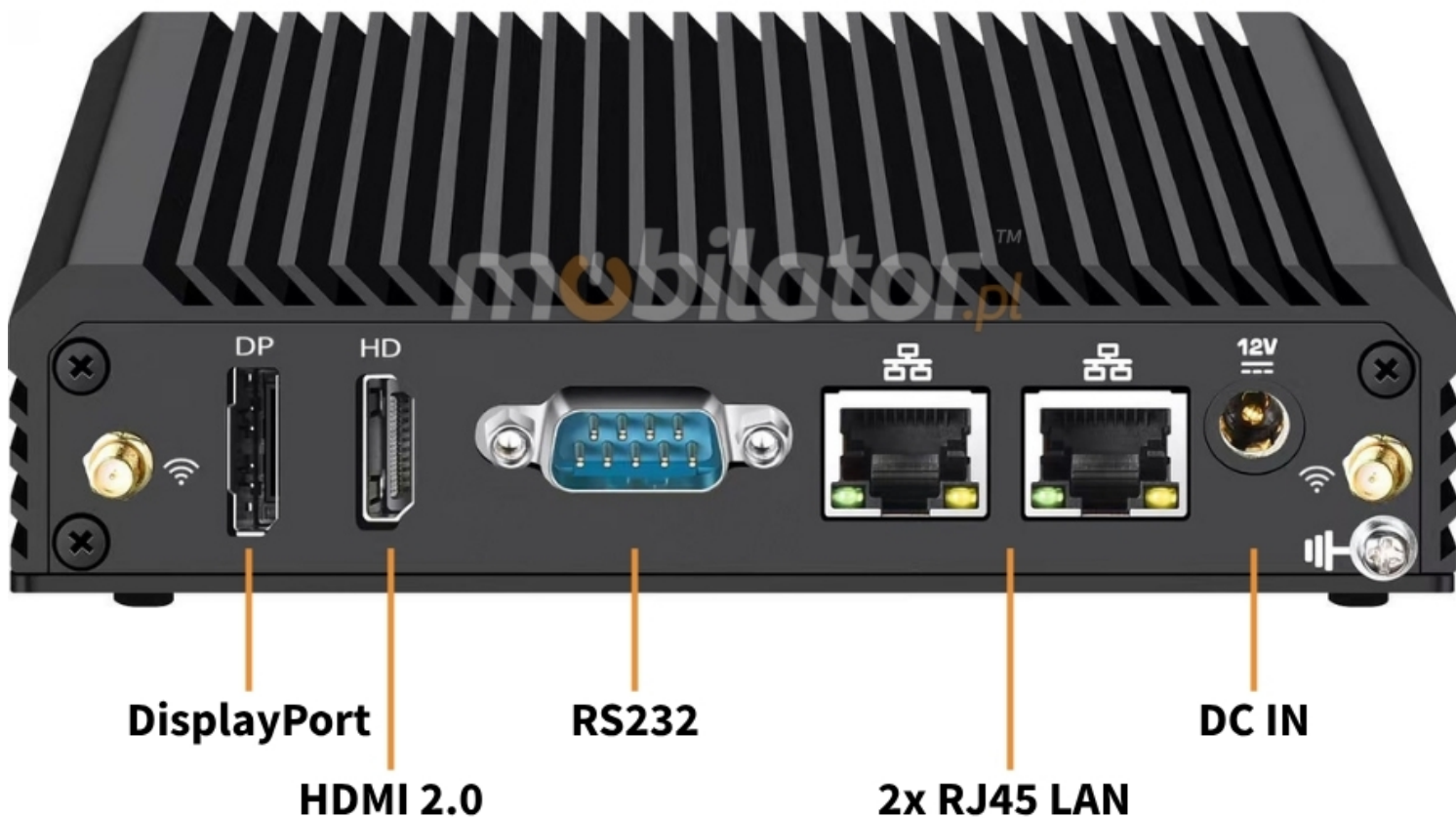
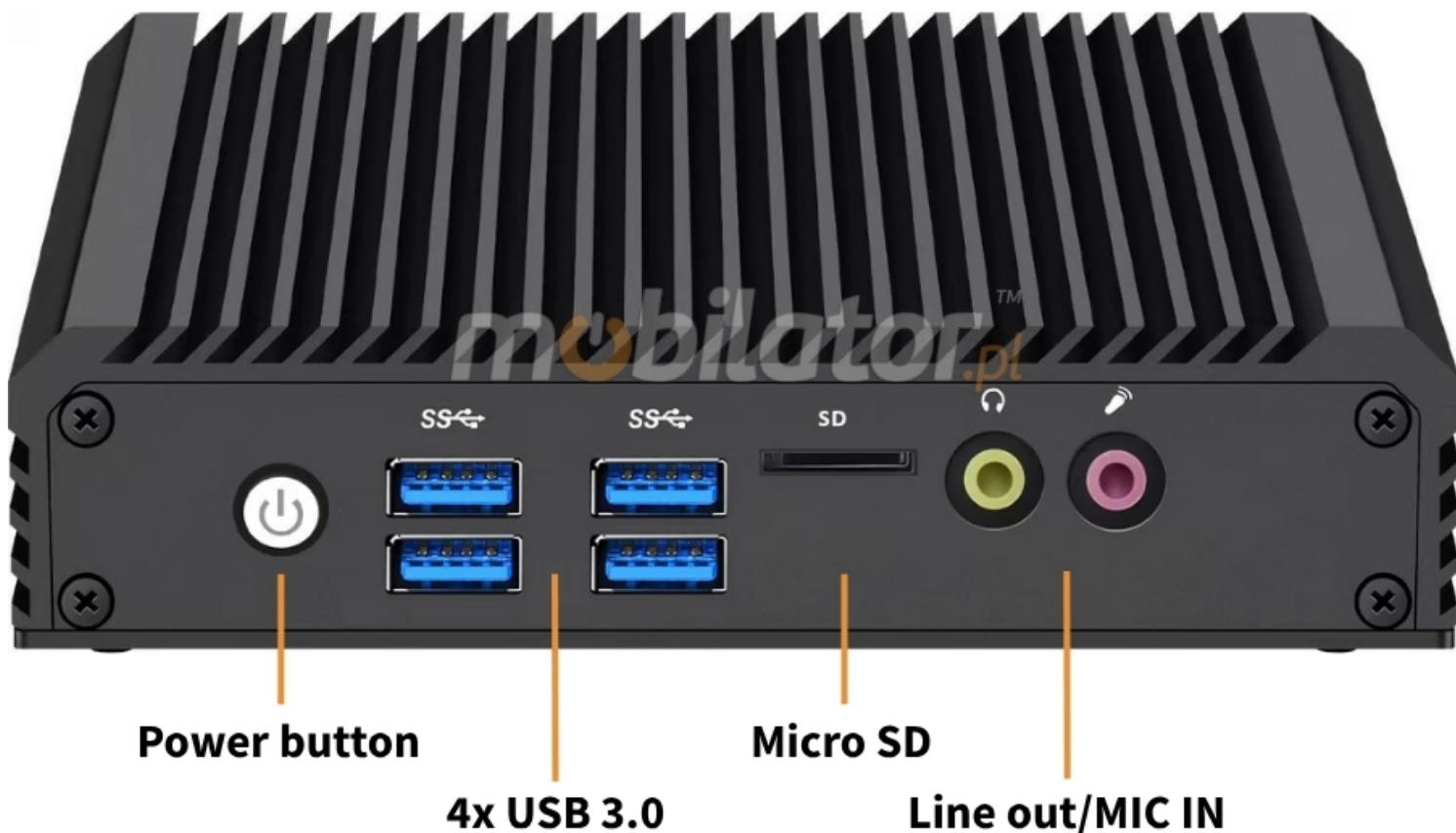
Dimensions	145mm x 127.5mm x 34mm
Net weight	1100g

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Connectors and Buttons

The modern MobiPad nBOX MV3-2LAN features a practical front panel that facilitates efficient connection of accessories in various working conditions. The durable metal casing integrates a power button on the front, allowing for hassle-free powering on the device. The front interface includes four USB 3.0 ports, which ensure fast data transfer and enable simultaneous connection to multiple external components. This section also includes a Micro SD card slot and audio ports: MIC IN and Line Out, allowing for flexible adaptation to specific technical

needs.



The versatile MobiPad nBOX MV3-2LAN features an extensive connector panel on the rear of the housing, which includes a DC IN jack for stable power in professional industrial systems. Wired data exchange is achieved via two RJ45 Gigabit LAN ports based on Realtek RTL8111H controllers, ensuring high throughput and reliability in network infrastructures. High-quality digital image transmission is provided by HDMI 2.0 and DisplayPort 1.4 outputs supporting 4K resolution at 60Hz, while the RS232 serial port enables direct integration with numerous control and measurement devices.

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CONNECTIVITY AND COMMUNICATION

WiFi 6E wireless network

The professional MobiPad nBOX MV3-2LAN provides stable and fast wireless connectivity thanks to a dedicated M.2 2230 E key slot, which fully supports the WiFi ac and WiFi ax 6/6E standards. This modern hardware architecture guarantees uninterrupted data transmission even in locations with high radio signal intensity, typical of large office buildings or automated logistics facilities.

Wired LAN

The advanced MobiPad nBOX MV3-2LAN features two RJ45 Gigabit LAN ports based on proven Realtek RTL8111H controllers, ensuring optimal throughput at 10/100/1000 Mbps. This communication structure facilitates efficient information

flow and maintaining a constant connection in control systems requiring constant network connectivity.

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RESISTANCE AND DURABILITY

Mechanical Damage

The use of a fanless cooling system and a fast M.2 NVMe SSD storage drive makes the rugged MobiPad nBOX MV3-2LAN exceptionally resistant to vibration and mechanical damage. The complete elimination of moving parts makes the design highly resistant to shock, ensuring stable operation in environments subject to intense vibration or requiring exceptional physical durability of all internal components.



A key operational advantage of the MobiPad nBOX MV3-2LAN computer is its all-

metal construction, which acts as an effective, passive heat sink. This design allows for the efficient transfer of thermal energy generated by the quad-core Intel N150 processor to the outside of the case without the need for active cooling systems.

Extreme Temperatures

The reliable MobiPad nBOX MV3-2LAN is fully designed for continuous operation in demanding thermal environments, as evidenced by its wide operating temperature range of -20°C to 55°C. Its specialized design ensures complete system stability without the risk of failure due to component overheating.

Operating Temperature	-20°C to 55°C
Temperature Storage	-40°C to 70°C
Humidity	10% to 90%

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APPLICATIONS

Retail and Services

The functional MobiPad nBOX MV3-2LAN is widely used in the retail and service sectors, where its small size facilitates the efficient issuance of sales documents

and ongoing monitoring of inventory. The use of a passive heat dissipation system and a robust housing guarantee completely silent operation at workstations, significantly improving environmental comfort by completely eliminating device-generated sounds. Built-in support for the VESA 70x70 and 100x100 mm mounting standards allows the unit to be permanently mounted on the back of a monitor or under a worktop, ensuring optimal space organization at the workstation.



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Warehouse and Logistics

The robust MobiPad nBOX MV3-2LAN ensures efficient warehouse resource management and allows for the simultaneous execution of multiple accounting processes. The complete absence of moving parts in the heat dissipation system makes this durable device exceptionally resistant to the harsh conditions found in logistics centers, where dust and fine particles could disrupt the operation of traditional units equipped with active fans. The metal-based construction guarantees component safety and operational stability, crucial in locations with high-intensity transshipment and inventory management.



Transportation and Automotive

The versatile MobiPad nBOX MV3-2LAN computer is highly suitable for the

transportation and automotive sectors thanks to its integrated DC IN power socket, which enables seamless interoperability with electrical systems installed in various vehicles. This fanless model, powered by an Intel N150 processor, is widely used in cars, railways, and public transport to manage modern information displays and monitor diagnostic data in real time.



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

AVAILABLE VERSIONS

The compatible MobiPad nBOX MV3-2LAN computer offers significant flexibility in component customization, allowing the platform to be precisely tailored to specific design goals. When custom parameters are required, the option of

developing dedicated hardware specifications beyond the scope of the standard catalog is available. Such solutions facilitate the creation of unique technological systems that are fully compliant with current operational needs and the technical requirements of the infrastructure.

	v.1	v.2	v.3	v.3.1	v.4
Windows 11 PRO	—	—	—	+	—
WiFi 6E	—	—	—	—	+
8GB RAM	—	+	+	+	+
128GB SSD M.2 - NVMe	—	+	—	—	—
256GB SSD M.2 - NVMe	—	—	+	+	—
512GB SSD M.2 - NVMe	—	—	—	—	+