



MobiPad nBOX MV3-2LAN-N100 v.1 - Barebones desktop mini PC for industrial management with Intel N100 processor, WiFi 5, 1x VGA, 1x Display Port, 1x HDMI, 2x RJ45 Gigabit LAN



Category:	MiniPC Industry
Manufacturer:	Mobikator
Supported OS:	Windows 11, Windows 10, Linux
Installed OS:	Windows 11 PRO (optional)
Chipset:	Intel Alder Lake-N
CPU Support:	Intel Alder Lake-N series processors
Installed CPU:	Intel N100
Graphic Card:	Intel UHD Graphics
Memory Support:	DDR4
Installed Memory:	None 8GB (optional)
Storage (HDD) Support:	SSD M.2 - NVMe
Installed Storage (HDD):	None 128GB 256GB 512GB (optional)
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:	Wi-Fi 5 WiFi 6E (optional)
3G:	No
4G LTE:	No
Bluetooth:	Bluetooth 4.2
Rear Panel (ports):	1x HDMI 2.0b 1x DisplayPort 1.4a 2x LAN 1x VGA 1x DC-IN
Front Panel (ports):	4x USB 3.0 1x Micro SD 1x MIC IN 1x 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

1 534,30 zł

net price: 1 247,40 zł

MobiPad nBOX MV3-2LAN- N100



SPECIFICATION

CONNECTIVITY AND COMMUNICATION

RESISTANCE AND DURABILITY

APPLICATION

AVAILABLE VERSIONS

This modern, compact industrial computer is highly resistant to harsh, dusty conditions and guarantees completely silent operation in any environment. The robust MobiPad nBOX MV3-2LAN-N100 model utilizes passive heat dissipation and a metal casing, allowing for efficient cooling of the quad-core Intel N100 processor without the need for fans. This professional-grade hardware, based on

the Alder Lake-N architecture, is fully equipped for uninterrupted 24/7 operation, further enhanced by automatic power-on after a power outage and Wake-On-Lan support. The Intel UHD Graphics graphics card makes the device a stable foundation for industrial control systems and advanced office workstations requiring the highest level of reliability.

Small dimensions



The compact design of the metal casing, measuring 145 x 127.5 x 34mm, minimizes the space required on the workstation.

Lightweight construction



A net weight of 1.1 kg combined with a compact chassis allows for easy portability in a bag or backpack.

Efficient processor



The use of the modern Intel N100 processor guarantees the responsiveness of this powerful device when processing multiple system tasks in parallel.

Wireless Networking



The implementation of advanced wireless modules ensures stable and fast data transfer using modern communication standards.

Quick Start



The use of modern storage solutions, including support for M.2 2280 SATA drives and NVMe SSDs, translates into lightning-fast system boot-up and immediate application launches.

Passive Cooling



The elimination of all moving mechanical components inside the chassis guarantees completely silent operation of this durable device in any working environment.

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SPECIFICATION

MobiPad nBOX MV3-2LAN-N100

Processor

Intel Alder Lake-N N100

MobiPad nBOX MV3-2LAN-N100

Operating system	Supported: Windows 11, Windows 10, Linux
RAM DDR4	None 8GB * (optional)
Hard Disk SSD M.2	None 128GB * 256GB * 512GB * (optional)
Communication	WiFi 5 Bluetooth 4.2 WiFi 6E * (optional)
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 VGA 1x Wejście DC
Dimensions	145 x 127.5 x 34mm
Weight	1.1kg
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 powerful MobiPad nBOX MV3-2LAN-N100 is based on the energy-efficient Intel N100 processor from the Alder Lake-N family, which provides four cores and

four threads for efficient processing of multiple operations simultaneously. This architecture is characterized by low power consumption of 6W, which, combined with support for a single DDR4 memory slot, ensures optimal throughput and stable system operation when performing industrial-grade tasks.

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Passive Cooling

The reliable MobiPad nBOX MV3-2LAN-N100 utilizes a passive fanless cooling system, which relies on the heat conduction properties of the robust metal housing. Thermal energy dissipated by the quad-core Intel N100 processor is transferred directly to the device's external structure, eliminating the need for fans and other mechanical components. This technology ensures completely silent system operation and significantly reduces the risk of failure, while also offering high resistance to dust and fine particles from entering the computer.

Dimensions

The compact metal casing makes the ergonomic MobiPad nBOX MV3-2LAN-N100 ideal for both modern office spaces and demanding industrial environments.



145mm

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

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Connectors and Buttons

The versatile MobiPad nBOX MV3-2LAN-N100 features a functional front panel that allows for efficient connection of peripherals in various working conditions. The durable metal casing features a power button on the front for convenient operation. The available input and output interface offers four USB 3.0 ports, enabling fast data transfer and simultaneous connection to multiple external

devices. The front panel also includes a Micro SD card reader and dedicated audio connectors, including a MIC IN and a Line Out, making it easy to customize the hardware configuration to specific operational requirements.





The modern MobiPad nBOX MV3-2LAN-N100 features a functional rear panel, which houses a DC IN socket, ensuring a stable power supply in professional industrial installations. Wired communication is via two RJ45 Gigabit LAN ports, ensuring reliable data transfer within local networks. High-quality image transmission is possible thanks to the use of HDMI 2.0 and DisplayPort 1.4 ports supporting 4K at 60Hz, while the device's versatility is enhanced by the presence of an analog VGA port for connecting older monitors or terminals.

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CONNECTIVITY AND COMMUNICATION

WiFi5 wireless network | (WiFi 6E) *

The professional MobiPad nBOX MV3-2LAN-N100 provides reliable and fast wireless communication through a dedicated M.2 2230 E key port, which enables full support for the WiFi ac and WiFi ax (6/6E) standards. This advanced industrial platform guarantees stable data transfer even in heavily loaded network structures found in office buildings and modern warehouses.

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

Wired LAN

The innovative MobiPad nBOX MV3-2LAN-N100 is equipped with two RJ45 Gigabit LAN ports based on stable Realtek RTL8111H controllers, ensuring optimal throughput at the 10/100/1000 Mbps standard. This network configuration enables efficient data exchange and constant connectivity in control systems requiring uninterrupted access to the network infrastructure. The use of a dual wired interface allows for the physical separation of the local network from the external network or the implementation of redundant connections, which significantly increases the security and continuity of operational processes in an industrial environment.

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RESISTANCE AND DURABILITY

Mechanical Damage

The use of a fanless heat dissipation system combined with a fast M.2 NVMe SSD data storage makes the durable MobiPad nBOX MV3-2LAN-N100 very resistant to vibrations and all types of mechanical damage.



A key functional advantage of the MobiPad nBOX MV3-2LAN-N100 is its all-metal housing, which acts as a passive heat exchanger. This specialized design effectively dissipates the thermal energy generated by the quad-core Intel N100 processor to the outside without the need for fans.

Extreme Temperatures

The rugged MobiPad nBOX MV3-2LAN-N100 is fully adapted for continuous

operation in demanding thermal conditions, as evidenced by its wide operating temperature range of -20°C to 55°C. The device remains fully operational at humidity levels ranging from 10% to 90%, and its design allows for safe storage in an extreme temperature range of -40°C to 70°C. These technical parameters ensure that this modern industrial computer guarantees high operational stability in changing environmental conditions while maintaining full processor performance.

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-N100 is an efficient tool for retail and service businesses, where its compact size facilitates the efficient generation of sales documents and ongoing management of merchandise records. The fanless cooling system combined with a robust housing ensures completely silent operation at service points, significantly improving environmental comfort by completely eliminating noise generated by the unit. With factory support for the

70x70 and 100x100 mm VESA mounting standards, this 1.1 kg device can be installed directly on the back of a monitor or under a worktop, allowing for maximum use of available space.



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Warehouse and Logistics

The high-quality MobiPad nBOX MV3-2LAN-N100 ensures smooth operation of

multiple warehouse management operations simultaneously. By completely eliminating fans, this robust device guarantees high reliability in harsh logistics environments where dust and particles could negatively impact traditional active systems. The use of an energy-efficient, low-power processor architecture translates into stable inventory management processes while maintaining optimal operating temperatures even during intensive use in distribution centers.



Transportation and Automotive

The flexible MobiPad nBOX MV3-2LAN-N100 demonstrates high functionality in the transportation and automotive sectors thanks to its dedicated DC IN power socket, which enables a stable connection to electrical systems in various types of vehicles. This passively cooled unit is widely used in cars, trains, and public transport, where it is responsible for operating advanced passenger information systems and real-time diagnostics of technical parameters. This modern hardware platform ensures the continuity of IT processes while ensuring data security by eliminating vulnerable disk drives and fans.



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

AVAILABLE VERSIONS

The versatile MobiPad nBOX MV3-2LAN-N100 offers a wide range of hardware customization options, allowing for precise adjustment of this passive unit's parameters to specific project requirements. Should specific parameters be required, a customized configuration can be developed beyond the standard configuration, allowing for the creation of a unique technological solution fully compliant with current guidelines.

	v.1	v.2	v.2.1	v.3	v.4
Windows 11 PRO	—	—		—	—
WiFi 6E	—	—	—	—	
8GB RAM	—				
128GB SSD M.2 - NVMe	—			—	—
256GB SSD M.2 - NVMe	—	—	—		—
512GB SSD M.2 - NVMe	—	—	—	—	