



MobiPad nBOX MV2-2C2LG v.5 - Fanless industrial Mini PC with Windows 11 support, WiFi 6E module, 8GB + 512GB, with 3x USB 3.0 and 2x USB 2.0 ports

<b>Category:</b>	MiniPC Industry
<b>Manufacturer:</b>	Mobikator
<b>Supported OS:</b>	Windows 11, Windows 10, Linux
<b>Installed OS:</b>	Windows 11 PRO (optional)
<b>Chipset:</b>	Intel Alder Lake-N
<b>CPU Support:</b>	Intel Alder Lake-N series processors
<b>Installed CPU:</b>	Intel Alder Lake-N N100
<b>Graphic Card:</b>	Intel UHD Graphics
<b>Memory Support:</b>	DDR4
<b>Installed Memory:</b>	<b>8GB RAM</b>
<b>Storage (HDD) Support:</b>	SSD M.2 - NVMe
<b>Installed Storage (HDD):</b>	<b>512GB SSD M.2 - NVME</b>
<b>IP Norm:</b>	None
<b>Temp:</b>	-20°C ~ +55°C
<b>Storage temperature:</b>	-40°C ~ +70°C
<b>Humidity:</b>	5% - 95%
<b>Others:</b>	Color black
<b>LAN:</b>	2x RJ45 2.5Gbe LAN (Intel i225-V)
<b>Wireless LAN card:</b>	<b>WiFi 6E</b>

<b>3G:</b>	No
<b>4G LTE:</b>	Optional
<b>Bluetooth:</b>	Bluetooth 4.2
<b>Rear Panel (ports):</b>	HDMI 2.0   1× DisplayPort 1.4a   2× LAN 2.5G   2× USB 2.0   GPIO   DC-IN
<b>Front Panel (ports):</b>	USB-C 3.0   3× USB 3.0   MIC IN and Line-out   2× COM (RS232/RS485)
<b>Expansion:</b>	Adapter   HDMI cable   VESA mount   WiFi Antenna
<b>Power:</b>	100-240V AC - 19V DC / 3.7A
<b>Watch Dog Timer:</b>	Nie
<b>CD/DVD Drive:</b>	None
<b>TV Tuner:</b>	No
<b>Dimensions:</b>	145 x 127.5 x 34 mm
<b>Fanless:</b>	Yes
<b>Weight:</b>	1,1kg

**2 232,45 zł**  
net price: 1 815,00 zł

# MobiPad nBOX MV2- 2C2LG



## SPECIFICATION

## CONNECTIVITY AND COMMUNICATION

## RESISTANCE AND DURABILITY

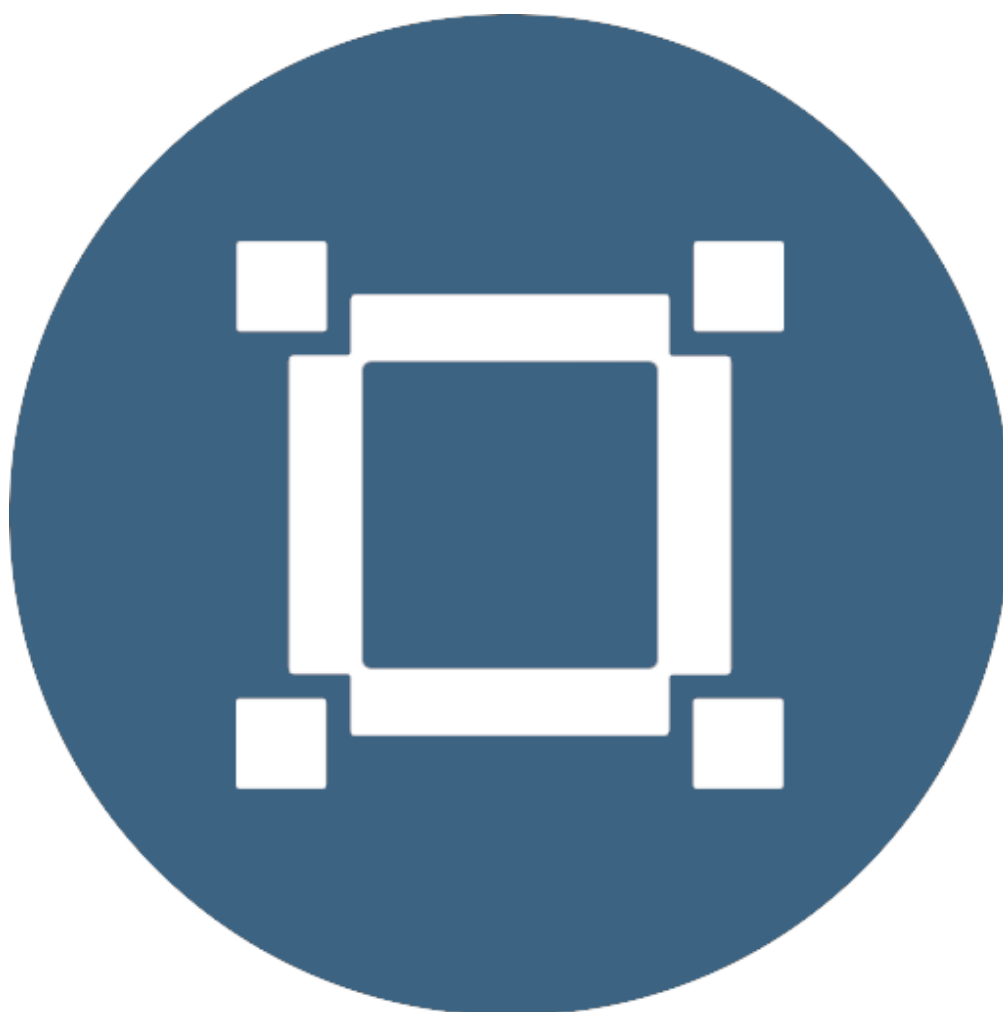
## APPLICATION

## AVAILABLE VERSIONS

These compact computing units, designed for the industrial sector, are exceptionally resistant to harmful factors and dust, ensuring completely silent operation in any environment without generating unnecessary noise. The innovative MobiPad nBOX MV2-2C2LG is based on a completely passive heat dissipation system, which works in conjunction with a durable metal housing, ensuring optimal temperatures for the quad-core Intel N100 processor from the Intel Alder Lake-N generation without the use of emergency fans. This design ensures full readiness for continuous operation 24/7, and operational stability is

further enhanced by built-in automatic restart mechanisms after power outages and Wake-On-Lan technology. The integrated Intel UHD Graphics system makes this solution a solid foundation for both complex industrial installations and advanced office workstations that prioritize the highest operational smoothness and long-term reliability

### Small dimensions



The compact design, made of durable metal, features optimized dimensions of 145 x 127 x 34 millimeters, which directly translates into saving valuable space.

### Lightweight construction



The net weight, reduced to just 1.1 kilograms, combined with the highly compact design, ensures exceptionally simple and convenient storage in a standard work bag.

Efficient processor



The use of a modern Intel N100 processing unit derived from the efficient Intel Alder Lake-N architecture translates into excellent system smoothness when performing multiple operations simultaneously.

## Wireless Networking



The use of advanced communication modules compliant with the WiFi ac and WiFi ax standards, including bands 6 and 6E, guarantees exceptionally stable and fast wireless file transfer.

## Quick Start



The use of fast data storage technology based on an internal M.2 2280 connector supporting modern SATA and NVMe SSDs ensures immediate readiness.

## Passive Cooling



A fully passive architecture with no moving mechanical parts ensures completely silent system operation in any environment, regardless of the unit's load.

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## SPECIFICATION

### MobiPad nBOX MV2-2C2LG

Processor	Intel Alder Lake-N N100
Operating system	Supported: Windows 11, Windows 10, Linux

## MobiPad nBOX MV2-2C2LG

RAM DDR4	8GB
Hard Disk SSD M.2	512GB
Communication	WiFi 6E   Bluetooth 4.2 4G LTE * (optional)
Connectors - front	1x USB-C 3.0   3x USB 3.0 1 x microphone input (MIC IN) and line output (Line out) 2x COM ** (a choice of 2x RS232 or 2xRS485 or 1xRS232 and 1x RS485)
Connectors - rear	1x HDMI 2.0   1x DisplayPort 1.4a   2x LAN   2x USB 2.0 1x GPIO (DB9 port, 9pin)   1x DC IN
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.

\*\* When ordering, a selection of two COM connector variants is available: 2x RS232, 2x RS485, or a mixed set (1x RS232 and 1x RS485).



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

### Efficient Processor

The reliable MobiPad nBOX MV2-2C2LG is powered by the powerful and extremely energy-efficient Intel N100 processor, derived from the Intel Alder

Lake-N family. It offers four cores and four threads clocked at a maximum frequency of up to 3.4 GHz, ensuring smooth execution of assigned tasks. The architecture of this computing system stands out with an ultra-low TDP of just 6W, which, combined with a single SO-DIMM DDR4 memory module slot, allows for the high data throughput necessary for the stable operation of complex IT systems.

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## Passive Cooling

The innovative hardware design is based on a passive fanless cooling system that optimally utilizes the thermal properties of the robust metal housing. Thermal energy generated by the processor is transferred directly to the outer surface of the housing, eliminating noisy fans and any other moving components from within the system. The industrial-grade MobiPad nBOX MV2-2C2LG ensures completely silent operation and drastically reduces the risk of mechanical damage by creating an extremely tight protective barrier that prevents harmful dust and dirt from reaching key electronic components.

## Dimensions

The compact design, made entirely of durable metal and characterized by optimized dimensions of 145 by 127.5 by 35 millimeters, makes the versatile MobiPad nBOX MV2-2C2LG a perfect fit for both modern office environments and

highly demanding industrial spaces, guaranteeing easy integration even in very limited workspaces.



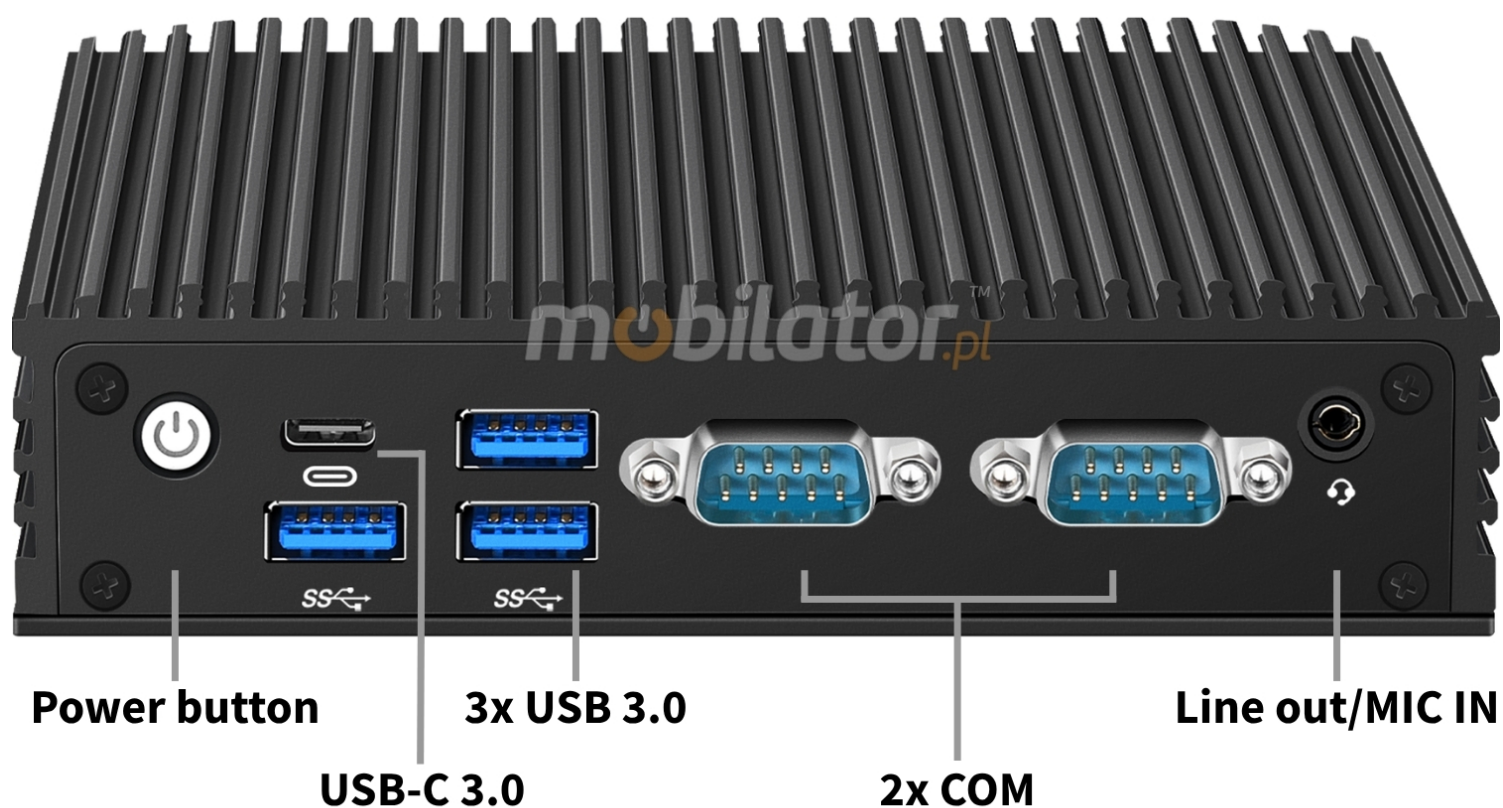
<b>Dimensions</b>	145mm x 127.5mm x 34mm
<b>Net weight</b>	1100g

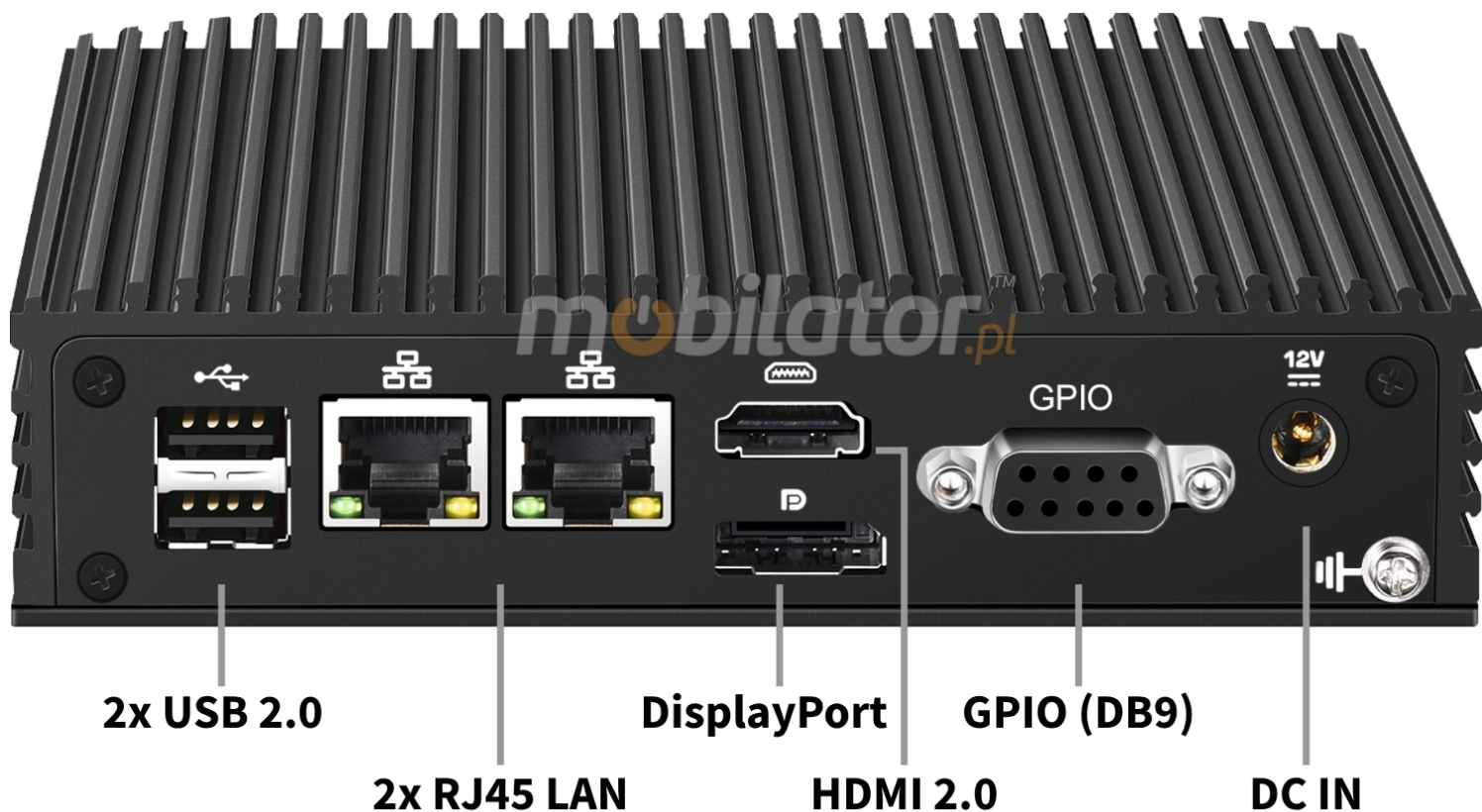
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## Connectors and Buttons

The functional MobiPad nBOX MV2-2C2LG is equipped with an optimized set of connectors located on the front panel, facilitating the rapid connection of essential peripherals even in highly demanding work environments. The durable

metal construction on the front section features an easily accessible power button for quick system startup. The integrated communication interface offers access to a modern USB Type-C 3.0 port and three high-speed USB 3.0 ports, enabling efficient data transfer and simultaneous operation of multiple external accessories. The front of the case also features a universal combo audio connector combining a microphone input and a line-out output, making it easy to adapt the device to the specific tasks being performed. This interface arrangement promotes superior ergonomics and allows for efficient connection management in industrial workstations. **A key advantage is the presence of two COM ports. During the hardware assembly stage, the user can choose their preferred configuration: two RS232 ports, two RS485 ports, or a mixed set consisting of one RS232 port and one RS485 port.**





The optimized architecture includes a well-equipped rear panel with a standard DC IN power socket, ensuring complete power stability in demanding industrial environments. Smooth wired communication is ensured by two built-in RJ45 2.5GbE LAN ports based on reliable Intel i225-V chipsets, while flawless video signal transfer is achieved via one HDMI 2.0 port and one DisplayPort 1.4 port, supporting full 4K high-resolution display at 60Hz. The rear I/O section also includes two convenient USB 2.0 ports, significantly streamlining management of connected peripherals. A key element enhancing the versatility of the entire system is the GPIO interface in the form of a 9-pin DB9 port, which allows direct communication with specialized electronics.

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## CONNECTIVITY AND COMMUNICATION

## WiFi 6E wireless network

The advanced MobiPad nBOX MV2-2C2LG provides an extremely stable form of radio communication based on an integrated internal m.2 2230 E key port. This hardware architecture ensures full compatibility with fast signal transmission standards, including WiFi ac technology and the modern WiFi ax solution, which also supports bands 6 and 6E. Designed for the demanding industrial sector, this unit guarantees completely uninterrupted and trouble-free digital information flow, coping perfectly with the highly dense and heavily utilized network environments prevalent in modern production halls and automated office spaces.

## Wired LAN

The reliable MobiPad nBOX MV2-2C2LG features a dual wired interface, including two RJ45 2.5Gbe LAN ports powered by precise Intel i225-V controllers, enabling an impressive throughput of 2500 Mbps. This advanced network architecture significantly outperforms standard gigabit solutions, facilitating the rapid transfer of massive data packets and effectively reducing any latency in demanding operating systems. The presence of two independent network ports provides an excellent opportunity to physically separate the internal local network from the external infrastructure or configure secure redundant connections, dramatically improving the overall reliability and stability of complex industrial installations.

## RESISTANCE AND DURABILITY

### Mechanical Damage

The innovative passive cooling system, combined with a reliable solid-state drive mounted in an M.2 2280 socket with support for SATA and NVMe standards, makes the rugged MobiPad nBOX MV2-2C2LG highly resistant to the negative effects of strong vibrations and potential mechanical damage. The complete elimination of all moving parts from the internal structure guarantees absolute operational stability and the highest security of digital information, even in extremely hostile workspaces subjected to constant shocks.



The key advantage of the specialized MobiPad nBOX MV2-2C2LG is its all-metal construction, which acts as an efficient passive heat sink. The device's optimized form factor has been carefully designed to maximize the dissipation of accumulated thermal energy directly into the environment, eliminating the need for any active cooling systems.

## Extreme Temperatures

The rugged MobiPad nBOX MV2-2C2LG is perfectly equipped to perform uninterrupted tasks in a highly demanding thermal environment, as evidenced by its wide operating temperature range of  $-20^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ . The use of a fully

passive thermal dissipation system, devoid of any mechanical failures, guarantees extremely effective cooling of the integrated processor, allowing for continuous and safe operation in extreme ambient conditions without the need for a sudden drop in system performance.

<b>Operating Temperature</b>	-20°C to 55°C
<b>Temperature Storage</b>	-20°C to 70°C
<b>Humidity</b>	5% to 95%

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## APPLICATIONS

### Retail and Services

The practical MobiPad nBOX MV2-2C2LG is an exceptionally effective work tool for a wide range of retail and service sectors, facilitating efficient invoice generation and maintaining current sales documentation. The use of a passive cooling system combined with a durable metal casing guarantees completely silent operation in customer service areas, significantly improving overall work comfort without emitting any intrusive sounds. A dedicated VESA mounting bracket supporting 70x70 and 100x100 millimeter hole spacing allows this 1.1-kilogram computer to be easily mounted directly on the rear panel of a monitor, under a worktop, or in the checkout area, optimizing the use of available space.

This versatile technology makes this device ideal for any location with limited space, while also providing a wide range of communication ports necessary for connecting barcode scanners and payment terminals.



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## Warehouse and Logistics

The indispensable MobiPad nBOX MV2-2C2LG draws its computing power from a modern quad-core Intel N100 processor, guaranteeing smooth and trouble-free operation of multiple parallel processes related to precise inventory management and advanced logistics. Its highly sealed metal housing, integrated

with a passive cooling system, allows for long-term and fully stable operation in the harsh, dusty conditions typical of the dynamic transportation and automotive industries, completely eliminating the risk of unexpected downtime.



## Transportation and Automotive

The versatile MobiPad nBOX MV2-2C2LG stands out for its high utility in the dynamic transportation and automotive industries, thanks to its dedicated DC IN power input, which guarantees seamless integration with on-board electrical systems in a diverse fleet of vehicles. This passively cooled computing unit is ideal for use in trucks, trains, and popular public transportation vehicles, where it successfully manages extensive passenger information systems and conducts

precise real-time diagnostics of key technical parameters of machines, thus improving the overall safety and efficiency of transport operations.



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

## AVAILABLE VERSIONS

The configurable MobiPad nBOX MV2-2C2LG boasts enormous potential for customizing its base components, enabling perfect alignment of its technical parameters with the requirements of a specific industrial implementation. Should specific hardware requirements arise, complete freedom is available to create a fully customizable version of the device, going beyond standard configurations, facilitating the creation of a unique work tool that perfectly

meets the most stringent criteria of advanced systems and complex technological projects.

	v.1	v.2	v.3	v.3.1	v.4	v.5
Windows 11 PRO	—	—	—	+	—	—
WiFi 6E	—	—	+	+	—	+
4G	—	—	—	—	+	—
8GB RAM	—	+	+	+	+	+
128GB SSD M.2 - NVMe	—	+	—	—	—	—
256GB SSD M.2 - NVMe	—	—	+	+	+	—
512GB SSD M.2 - NVMe	—	—	—	—	—	+