



IBOX 6340 v.1 - Industrial MiniPC for mobile use (Windows 11 support) with Intel Celeron processor, 4x 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 silver
LAN:	4x Intel i211-AT 10/100/1000M LAN
Wireless LAN card:	Option
3G:	No
4G LTE:	No
Bluetooth:	No
Rear Panel (ports):	VGA 2x USB 2.0 2x RS232 (Possibility to convert one port to RS232/RS422/RS485)
Front Panel (ports):	4x LAN HDMI 2x RS232 4x UBS 3.0
Expansion:	-----
Power:	9-36V
Watch Dog Timer:	Yes
CD/DVD Drive:	None
TV Tuner:	No
Dimensions:	280x143x40mm
Fanless:	Yes
Weight:	1,45kg

Product from the Archive - production finished

IBOX 6340



SPECIFICATION

CONNECTIVITY AND COMMUNICATION

RESISTANCE AND DURABILITY

APPLICATION

AVAILABLE VERSIONS

The IBOX 6340 is an ultra-compact industrial computer designed for reliable operation in extreme dust conditions. By utilizing Intel Elkhart Lake processors and a passive cooling system within a rugged metal housing, the unit ensures completely silent operation and effective heat dissipation without the use of fans. The Auto Power On function and 24/7 operation capability make it a cornerstone for critical industrial installations 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 6340	
Processor	Intel Celeron J6412
Operating system	Supported: Windows 11, Linux
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 : 4x Intel i211-AT 10/100/1000M LAN
Connectors - front	4x LAN HDMI 2x RS232 4x UBS 3.0
Connectors - rear	VGA 2x USB 2.0 2x RS232 (Possibility to convert one port to RS232/RS422/RS485)

IBOX 6340

Dimensions	280x143x40mm
Weight	1.45kg
Graphics card	Intel UHD Graphics
Colors available	Silver (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 IBOX 6340 utilizes an advanced passive cooling system enclosed in a durable metal housing. Thanks to its fanless design, heat is dissipated directly through the device's structure, allowing for the complete elimination of moving parts. This solution guarantees absolutely silent operation, maximum dust resistance, and high mechanical reliability, ensuring the stability of Intel Elkhart Lake processors across a wide range of temperatures.

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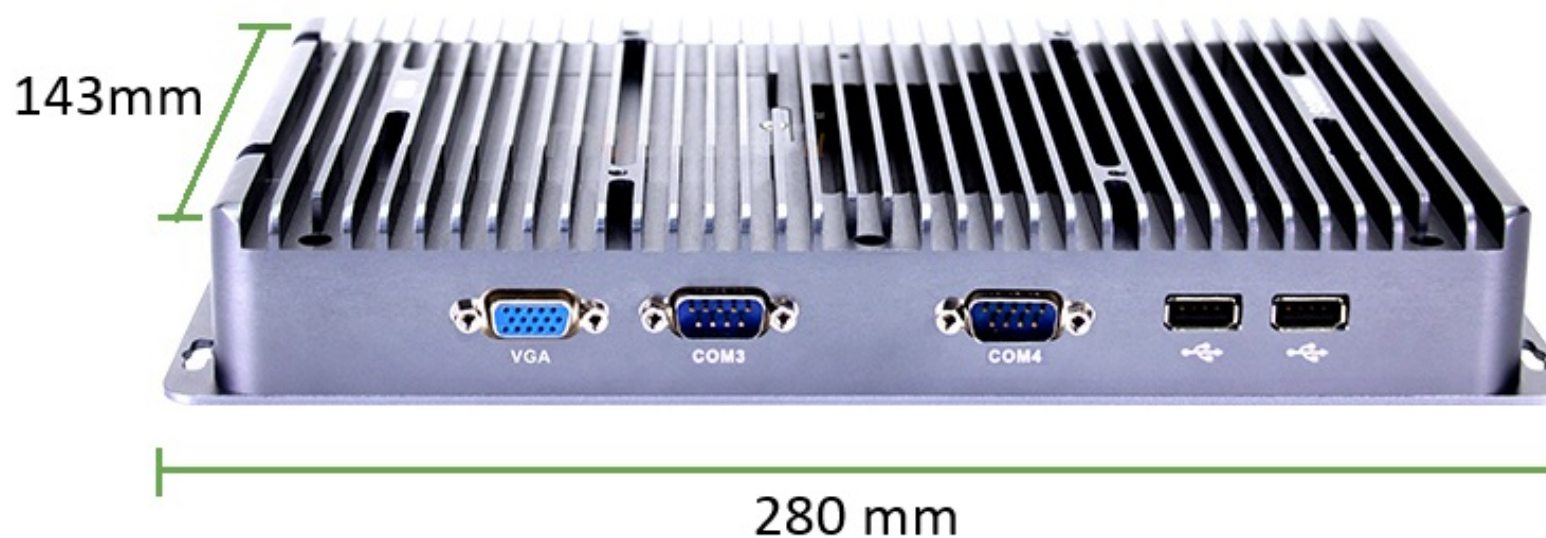
Passive Cooling

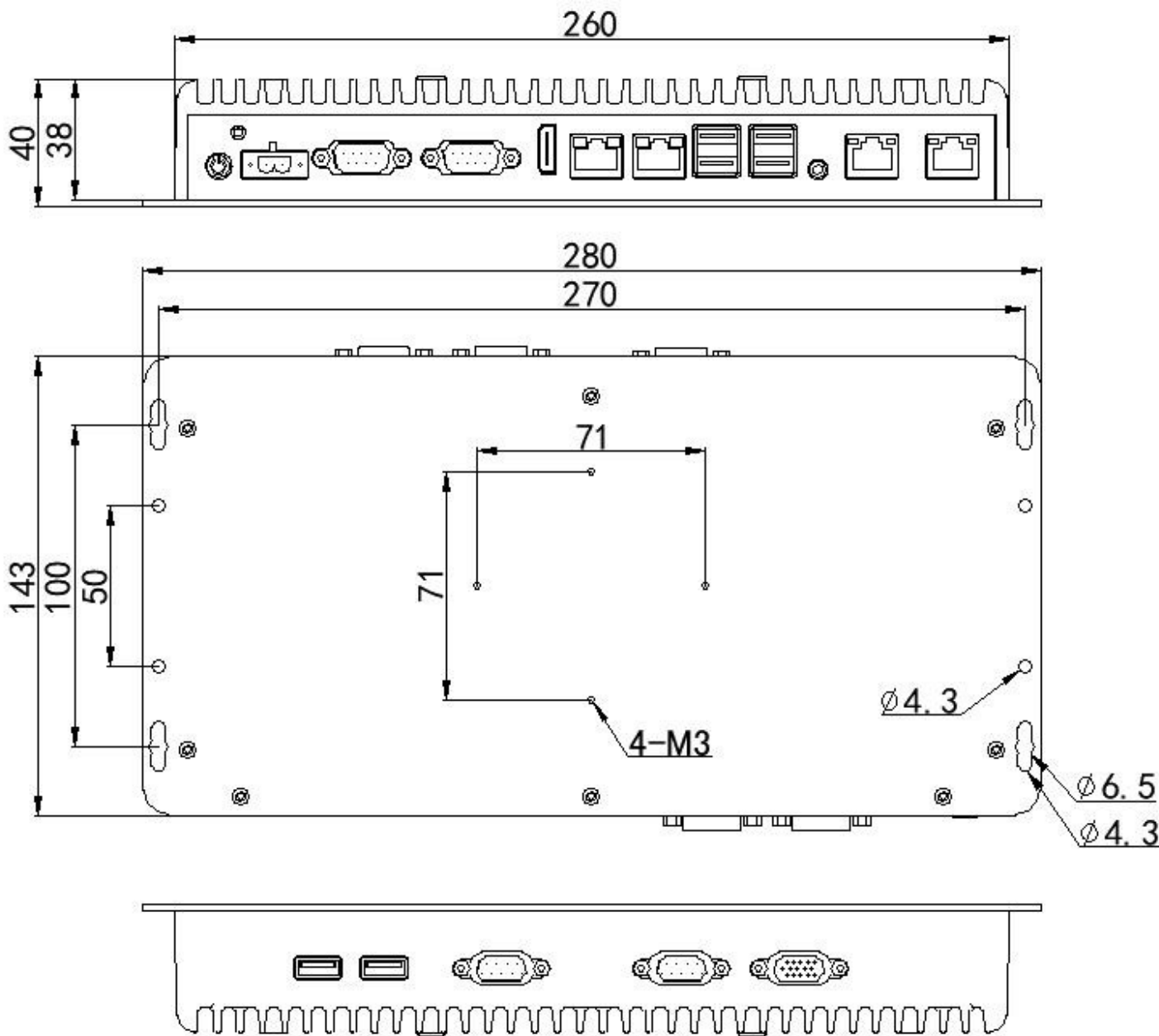
The innovative IBOX 6340 utilizes an effective, passive fanless cooling system, which is based on a durable metal casing. This system relies on the automatic transfer of heat through the device's external structure to the surrounding

environment, completely eliminating the use of fans or other moving parts. This design ensures absolutely silent operation, reduces the risk of mechanical failure, and offers high resistance to dust and dirt, allowing for complete stability in varying temperatures while simultaneously conserving the energy of Elhhart Lake processors.

Dimensions

The compact IBOX 6340 is a synonym for flexibility. Thanks to its durable metal housing and fanless design, the device performs excellently in both modern offices and harsh industrial environments. Full VESA compatibility allows for discreet mounting on the back of a monitor, freeing up workspace and enabling the creation of a minimalist, highly functional workstation.





Dimensions	280mm x 143mm x 40mm
Net weight	1450g

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Connectors and Buttons

The versatile IBOX 6340 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 VGA port, four high-performance USB 3.0 ports, and two standard USB 2.0 ports. The unit's designers also included audio inputs for a microphone and headphones.





The professional IBOX 6340 computer features a built-in DC IN power input, a Phoenix terminal, dual RJ45 LAN network connectors and one HDMI video outputs. **This hardware offers significant flexibility in terms of configuration, offering the option to specify the preferred standard for the four COM ports during the ordering process: four RS232 connectors, or a mixed configuration of three RS232 and one RS232/RS422/RS485 interface.** 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 6340 provides stable and fast wireless connectivity thanks to the

integrated M.2 2230 (E-Key) slot, supporting the latest Wi-Fi standards. The use of modern network protocols guarantees high throughput and low latency, which is crucial for reliable data exchange in dense network infrastructures—both in offices and on production floors.

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

Wired LAN

The IBOX 6340 offers an advanced network infrastructure based on four RJ45 ports. The use of Intel i226-IT (2.5GbE) controllers provides more than double the throughput compared to the traditional Gigabit Ethernet standard. This configuration enables full network segmentation, support for redundant connections, and lightning-fast data transmission, which is critical for maintaining operational continuity in mission-critical industrial systems.

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RESISTANCE AND DURABILITY

Mechanical Damage

By combining passive fanless cooling with M.2 SSD storage, the IBOX 6340 unit is entirely free of moving parts. This design guarantees exceptional resistance to vibrations, shocks, and mechanical damage. The absence of fans and traditional hard drives significantly increases hardware reliability, enabling stable operation in demanding industrial environments exposed to intense vibrations.



The key differentiator of the IBOX 6340 is its metal housing with optimized geometry, which serves as an integrated heat sink. This design guarantees high heat dissipation efficiency, which, combined with the sealed protection of the components, allows for failure-free operation in the harshest industrial conditions. The precisely selected format of the unit ensures an ideal balance between compactness and thermal performance.

Extreme Temperatures

The IBOX 6340 has been designed for reliable operation in extreme thermal conditions, offering a wide operating temperature range from -20°C to 60°C . Thanks to the use of a passive cooling system and a robust metal housing, the unit effectively dissipates heat from Intel Celeron processors even under maximum load. This design guarantees full system stability in locations exposed to rapid temperature fluctuations, eliminating the risk of overheating or failure.

Operating Temperature	-20°C to 60°C
Humidity	5% to 95%

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APPLICATIONS

Retail and Services

The IBOX 6340 is a highly ergonomic solution designed with the specific requirements of the retail, service, and logistics sectors in mind. Thanks to its ultra-compact metal housing, this unit fits perfectly into the limited space of Point of Sale (POS) stations, facilitating efficient invoicing, inventory recording, and the ongoing operation of sales systems. The elimination of fans ensures the device operates completely silently, significantly increasing work comfort in direct customer service areas. The absence of moving mechanical parts and the compact design allow for safe operation not only in offices but also in delivery vehicle cabins or mobile workstations on production floors, where workspace is at a premium.



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Warehouse and Logistics

The advanced IBOX 6340, powered by the efficient Intel Celeron J6412 processor, serves as the foundation for modern logistics infrastructure. The unit's high computing power enables the simultaneous handling of multiple Warehouse Management Systems (WMS) and the seamless analysis of real-time data. Thanks to passive cooling and a sealed metal housing, the computer exhibits total

resistance to dust and contaminants typical of transshipment centers. This ensures uninterrupted operational stability across a wide spectrum of temperatures, eliminating the risk of downtime in key nodes of the supply chain.



Transportation and Automotive

The IBOX 6340 is a specialized unit dedicated to the transport sector, distinguished by its wide range of accepted DC IN input voltage. This makes the computer a perfect fit for onboard installations in cars, buses, trains, and aircraft. The device serves as a stable foundation for passenger information systems and

advanced real-time vehicle parameter diagnostics. The compact, fanless metal housing guarantees full operational reliability and resistance to permanent shocks, allowing for installation in locations with extremely limited space.



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

AVAILABLE VERSIONS

The customizable IBOX 6340 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.