

iBOX-N12 (J1900)



iBOX-N12 (J1900) v.1 - Robust industrial mini PC without fans (passive cooling)

Category:	MiniPC Industry
Manufacturer:	Mobikator
Supported OS:	Windows: 7/8//10 Linux
Installed OS:	-----
Chipset:	Intel Chipset
CPU Support:	Intel Bay Trail J1900
Installed CPU:	intel J1900 (4x 2.0 GHz)
Graphic Card:	Intel HD Graphics
Memory Support:	SODIMM DDR3L (Max: 8GB)
Installed Memory:	2GB
Storage (HDD) Support:	SSD
Installed Storage (HDD):	64 GB
IP Norm:	-----
Temp:	-10°C — 60°C
Storage temperature:	-10°C — 60°C
Humidity:	0% ~ 95%
Others:	Color Black
LAN:	4xIntel 82583V 10/100/1000M LAN

Wireless LAN card:	Yes
3G:	-----
Bluetooth:	-----
Rear Panel (ports):	4x LAN RJ45 1x DC 12V
Front Panel (ports):	Power ON 1xUSB3.0 1xUSB2.0 1xVGA 1xRJ45 COM
Expansion:	-----
Power:	12V
Watch Dog Timer:	Yes
CD/DVD Drive:	-----
TV Tuner:	-----
Dimensions:	148mm x 126.5mm x 48.5mm
Fanless:	Yes
Weight:	1000g

Product from the Archive - production finished

iBOX-N12 (J1900)



TECHNICAL SPECIFICATION

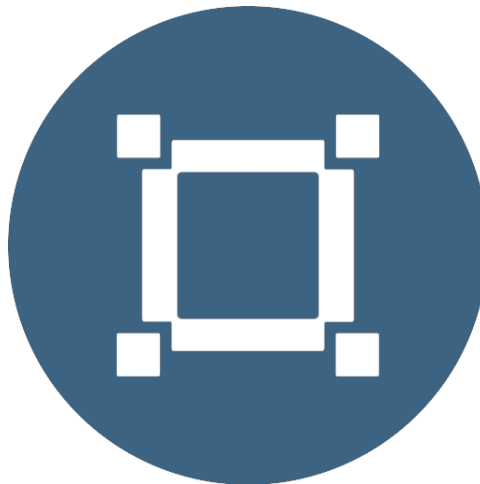
RESISTANCE AND DURABILITY

CONNECTIVITY AND COMMUNICATION

DEVICE APPLICATION

AVAILABLE VERSIONS

Small dimensions industrial computers excel in environments where dust, dirt and moisture predominate. They are ideal for applications requiring quiet operation. Small and reliable MiniPC use heat-pipe technology and aluminum fins for passive cooling. The robust mini Industrial Computer IBOX-N12 is a device designed for all industrial and non-continuous applications requiring continuous operation - 24 hours, 7 days a week.



Small dimensions

The compact housing means that the Mini PC will fit wherever you need it and is easy to carry.



Lightweight design

The computer's weight does not exceed 1.0 kg, so it can be conveniently carried in a bag or backpack.



Efficient components

The Intel J1900 quad-core CPU provides improved device performance.



Wireless network

The mini PC can be connected to nearby wireless networks by equipping it with an optional Wi-Fi module.



Quick start

A modern SSD drive will increase the speed of application programs and ensure quiet computer operation.



Passive cooling

The use of passive cooling in the Mini PC ensures silent operation and slows dust deposition.

* Optional equipment, available only in other versions of the device.

SPECIFICATION

Mini-PC IBOX-N12

Processor	Intel J1900 (4x 2.0 GHz)
Operation system	Support: Windows 7/8/10 Linux
RAM	2 GB SODIMM DDR3L
Drive	64GB SSD
Graphic card	Intel HD Graphics
Connectivity	3G * 4G * WiFi LAN: 4xIntel 82583V 10/100/1000M LAN
Front panel	1xUSB 3.0 1xUSB2.0 1xVGA 1xRJ45 COM Support CONSOLE

Mini-PC IBOX-N12	
Rear panel	4xRJ45 1000M LAN 1x DC 12V
Available colors	Black
Dimensions	148 x 126.5 x 48.5mm
Weight	1.0 kg

* Optional equipment, available only in other versions of the device.



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

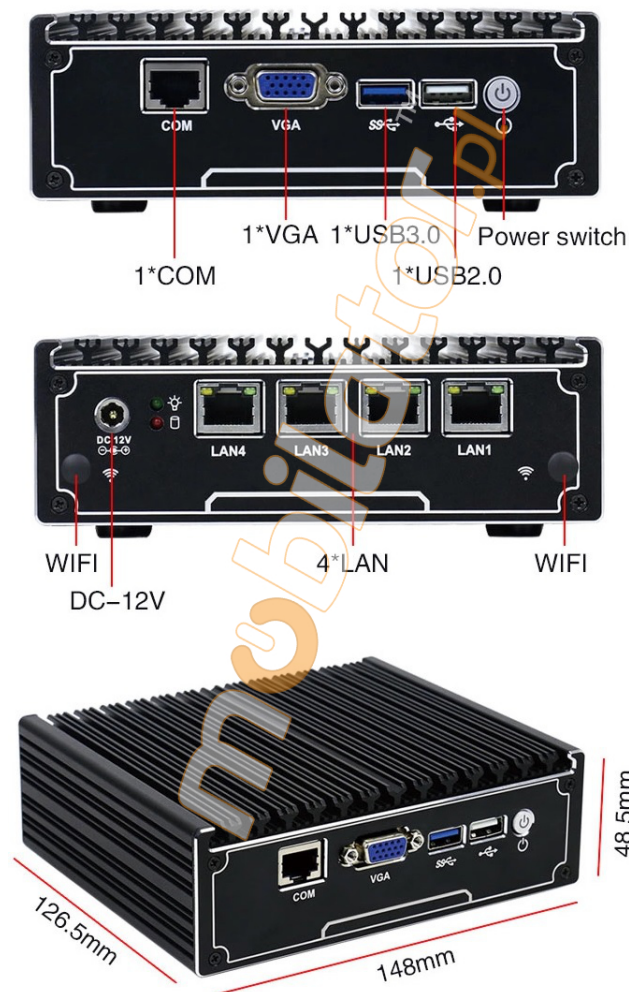
Efficient processor



The industrial mini-computer IBOX-N12 uses an efficient and energy-saving Intel J1900 processor. Inside it there are four cooperating cores enabling more efficient processing of many tasks at the same time. The shared cache memory in

which the multilevel hierarchy is used is dynamically allocated to each processor core depending on the load. This reduces the average access time to the main memory. The implemented Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.

Interfaces



Dimensions

Thanks to the small dimensions of the MiniPC, the IBOX-N12 is versatile for use at home, in the office and in the industry, for example in the production hall. It's literally everywhere, and thanks to the VESA mount it can be mounted on the back of the monitor to optimize the job.

Dimensions	148 x 126.5 x 48.5mm
Weight	1.0 kg

Passive cooling

The industrial Mini PC uses a proven cooling system, based only on solid elements, mainly heat sinks. The system uses the phenomenon of metals passing thermal energy into the environment - there are no additional moving elements in the form of eg fans. This solution ensures noiseless operation, lower failure rate and greater protection against dust and other dirt while reducing the amount of energy consumed.

RESISTANCE AND DURABILITY



Temperatures

IBOX-N12

is designed for continuous operation in both very low and high temperatures ranging from -10 °C to 60°C. If the device is switched off, it can already handle temperatures in the range of -10 °C to 60 °C.

Work temp.	-10°C do 60°C
Storage temp.	-10°C do 60°C
Humidity	0% do 95%

Mechanical damage

The passive cooling system used in the MiniPC IBOX-N12

combined with the SSD disk makes this computer very resistant to various types of mechanical injuries. An additional advantage of industrial computers is a solid construction made of high quality aluminum and specially designed in such a way that in addition to high efficiency in heat dissipation, it can also resist any external damage.

CONNECTIVITY AND COMMUNICATION

Wireless network (Option)

The dual-band Wi-Fi module provides quick access to the network wherever you can connect to secured or open Wi-Fi networks. This is a convenient solution for people who have a router at home or place of residence and a wireless network that can be used at no extra charge. Industrial mini-PC IBOX-N12

has been equipped the standard of - 802.11n, which allows transfer of files at a dizzying speed of up to 300 Mb / s.

Wired LAN Network

The MiniPC

IBOX-N12

has built-in Realtek network adapter that can work in a fast Gigabit Ethernet network.

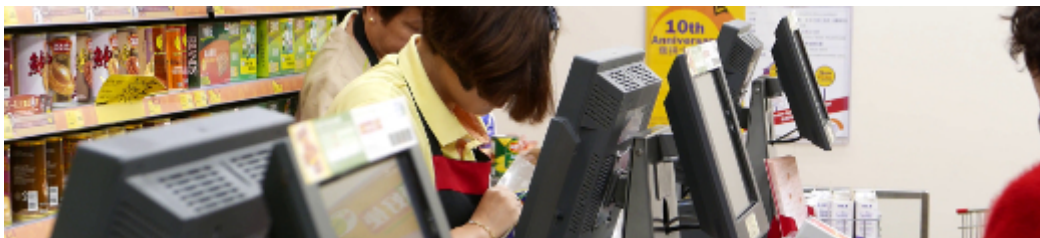


DEVICE APPLICATION

Trade and service

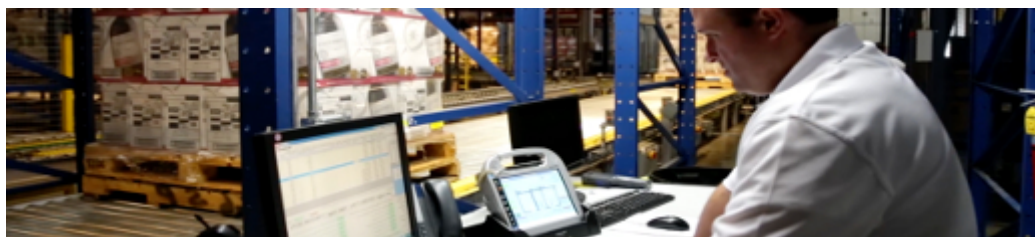
Mini PC is an ideal tool to support us in the implementation of many activities in the field of trade, small dimensions increase the possibility of its adaptation to activities such as issuing invoices or preparing documentation, which in turn allows us to convenient and optimal sales management. The VESA holder mounted to the housing provides many installation options, eg in stores (at the cash register, under the desktop, behind the LCD / LED monitor), in factory halls or in a delivery truck.

VESA Mount



Warehouse and logistics

Thanks high performance an industrial computer can be used to connect multiple devices in a warehouse and make their management much easier. Its rugged casing and the fanless cooling system are ideal for harsh environments in such rooms. The solid construction guarantees long-lasting work, even in environments with high dustiness and dirt.



Transport and motorization

A small industrial computer can be used in transport thanks to the ability to work on 12V power supply. Then the mini computer can be used in passenger cars, buses, trams, taxis, trains and even in airplanes. It allows you to inform the driver about the current state of the vehicle, transfer its current location to the management center, display information for passengers, etc. It performs well in vehicles where small dimensions are important.



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

AVAILABLE VERSIONS

The industrial mini-computer IBOX-N12

is offered in several versions to suit different needs. By clicking on the number of the hardware configuration you will be redirected to the product with the parameters given in the table below. In addition, it is possible to create a configuration that is currently unavailable on the customer's request.

	v.1	v.2	v.3	v.4	v.5	Barebone
2 GB DDR3	+	—	—	—	—	—
4 GB DDR3	—	+	—	+	+	—
8 GB DDR3	—	—	+	—	—	—
64 GB SSD	+	—	—	+	+	—
256GB SSD	—	+	—	—	—	—
512GB SSD	—	—	+	—	—	—
WiFi	+	+	+	—	—	—
3G	—	—	—	+	—	—

4G

—

—

—

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+

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