BiBOX-104PC1 (i7-10th)

BiBOX-104PC1 (i7-10th) v.5 - Modern touch panel computer for storage with SSD hard disk - 512 GB, 16 GB RAM and WiFi and Bluetooth communication

Category:	Industrial Panel PC Computers
Manufacturer:	Mobilator
Supported OS:	Windows 7/8/10, Linux, Ubantu
Installed OS:	No
Screen size:	10.4 inch
Resolution:	1024x768
Aspect ratio:	4:3
Brightness:	350 nits
Touchscreen:	10 Points Projected Capacitive Touch Screen
CPU Support:	Intel® Core **i7-10510U** (i7-10th) Quad Core, 4 x 1.80 GHz, Turbo 4.90 GHz
Installed CPU:	Intel® Core **i7-10510U** (i7-10th) Quad Core, 4 x 1.80 GHz, Turbo 4.90 GHz
Graphic Card:	Integrated graphics HD Graphics 1080p HD photo quality
Storage (HDD) Support:	SSD
Installed Storage (HDD):	**512 GB SSD**
Memory Support:	DDR4
Installed Memory:	**16 GB**
IP Norm:	-----

IP Level (front panel):	IP65
IP Level (back panel):	-----
Temp:	-10 °C to 60 °C
Storage Temp:	-20 °C to 70 °C
Humidity:	5% - 95% Non-Condensing
Anti-shock:	----
Anti-vibration:	----
Barcode reader:	No
RFID scanner (reader):	No
Others:	Color: Black
LAN:	Realtek RTL 8111E Gigabit Ethernet
Wireless LAN card:	**Built-in WiFi**
3G:	-----
4G LTE:	Option
Bluetooth:	**Built-in Bluetooth**
GPS:	No
Ports - rear panel:	1x HDMI 1x VGA 4x USB 1x LAN 1x EAR 2x RS232 DC-12V
Ports - front panel:	-----
Ports - left panel:	-----
Ports - right panel:	-----
Expansion:	-----
Power:	DC-12V
Power Consumption:	-----
Watch Dog Timer:	-----
Mounting VESA:	Yes
Folding Bracket (for office type working):	-----
Chipset:	Intel
CD/DVD Drive:	No

Audio:	Realtek ALC662, High Definition Audio (HD)
TV Tuner:	No
Backlight MTBF:	-----
Contrast Ratio:	800:1
Dual display:	No
Viewing Angle:	80°/80°/70°/75° (R/L/U/D)
Touch Life(contacts):	-----
Surface hardness (display):	-----
Color Resolution:	-----
Response time touch-panel (ms):	15ms
Housing material:	Metal
Dimensions:	264.4 x 211.8 x 48.6 mm
Fanless:	Option
Weight:	5kg

1 148,35 €

net price: 933,61 €

BiBOX-104PC1 (i7-10th)

SPECIFICATION AND PARAMETERS

DISPLAY AND TOUCH

RESISTANCE AND PROTECTION

COMMUNICATION AND CONNECTORS

APPLICATION

AVAILABLE VERSIONS

Industrial PC panels are integrated devices consisting of a PC computer and a touch monitor. Due to their design, they can work even under severe conditions prevailing in industrial environments, such as high humidity, high dustiness, contact with water or very low or high temperatures. These panels are characterized by high efficiency and stability of operation in all conditions.

Efficient cooling

The housing with notches used in the panel ensures good air exchange inside the device

Efficient

Powerful Intel Core i7-10510U processor improvesthe&device's performance.

Wireless network

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

Quick start

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

Bright Screen

The display with 350 nits brightness makes the picture much more vivid and better readable when used outside in the sun.

Capacitive screen

The capacitive screen allows precise handling and gentle on-screen movement.

Specifications and parameters

Performance	
Processor	Intel® Core i7-10510U (i7-10th) Quad Core, 4 x 1.80 GHz, Turbo 4.90 GHz
Graphics card	Integrated HD Graphics
Operating system	Support for Windows 7/8/10, Linux, Ubantu
RAM	16 GB DDR4
Drive	512 GB SSD
Display	
Screen	10.4" (1024x768)
Touch screen	10 Points Projected Capacitive Touch Screen
Brightness	350 nits
Screen ratio	4:3
Response time	15ms
Contrast ratio	800:1
View angle	80°/80°/70°/75° (R/L/U/D)
Interfaces	
Communication	WiFi + Bluetooth | 4G*
Connectors	1x LAN | 4x USB | 1x VGA | 1x EAR 2x RS232 | 1x HDMI | DC 12V
Other	
Software license	WINDOWS 10 PRO license*
Dimensions	264.4 x 211.8 x 48.6 mm
Weight	5 kg

Other	
Casing material	Metal

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

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

The industrial PC panel uses an efficient and energy-saving Intel® Core i7-10510U (i7-10th). In its interior there are four cooperating cores enabling more efficient processing of many tasks at the same time. Shared cache memory in which a multi-level hierarchy is used is dynamically allocated to each processor core depending on the load. This reduces the average access time to the main memory. Improved graphics card technology allows you to enjoy movies at full resolution and HD quality.

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

Display and touch

Amplified, metal industrial computer BiBOX-104PC1 (i7-10th) has a water-resistant and scratch-proof 10.4" screen. 1024x768 resolution offers good image quality, and high brightness of the screen 350 nits provides better color saturation and contrast and allows significantly improved visibility even in the case of incident. The display of the resistive type provides the user with a clear image and ease of use by touch.

CAPACITIVE SCREEN

The capacitive screen consists of a glass coating that is covered with an insulator. Touching the surface of the touch pad with your finger causes a disturbance in the flow of electric current. This display provides very good visibility under industrial conditions. The panel can be operated with one finger or conductive material (special glove). This type of screen provides support for multi-touch technology, which is a clear convenience during work. This is due to the fact that a large number of electrodes allows accurate detection of many points of touch. You do not have to use a stronger pressure for capacitive screens, because you only need to lightly brush the screen with your finger to make the device react.

Resistance and protection

QUALITY OF MATERIALS

The panel PC has a good-quality metal casing. It is an important element of the cooling system thanks to specially designed cutouts that facilitate air circulation inside the housing. The overall design of the device is focused on simplicity and functionality, appreciated among professionals, as an accessory the panel can be equipped with passive cooling.

EXTREME TEMPERATURES

PanelPC BiBOX-104PC1 (i7-10th) is designed for continuous operation both at very low and high temperatures in the range from -10°C to 60°C. If the device is turned off, it can handle temperatures ranging from -20°C to 70°C. In addition, the durable PanelPC is perfect for rooms with increased humidity, ensuring proper functioning even in the case of 95% relative air humidity. It is also possible to purchase additional fanless cooling.

Work temp.	-10°C to 60°C
Storage temp.	-20°C to 70°C

Humidity	5% - 95% Non-Condensing

IP65 PROTECTION

IP65 front case. The IP standard defines the degree of protection provided by the enclosure of an electrical device against such factors as: access to dangerous parts inside the enclosure, penetration of foreign matter, splashing or immersion.

IP6X	No ingress of dust, complete protection against contact. A vacuum must be applied. Test duration of up to 8 hours based on air flow.
IPX5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

Communication and connectors

WIRELESS WI-FI NETWORK

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. The shockproof industrial panel BiBOX-104PC1 (i7-10th) has been equipped with standards - 802.11n, which allows transfer of files at a dizzying speed of up to 150 Mb/s.

BLUETOOTH COMMUNICATION

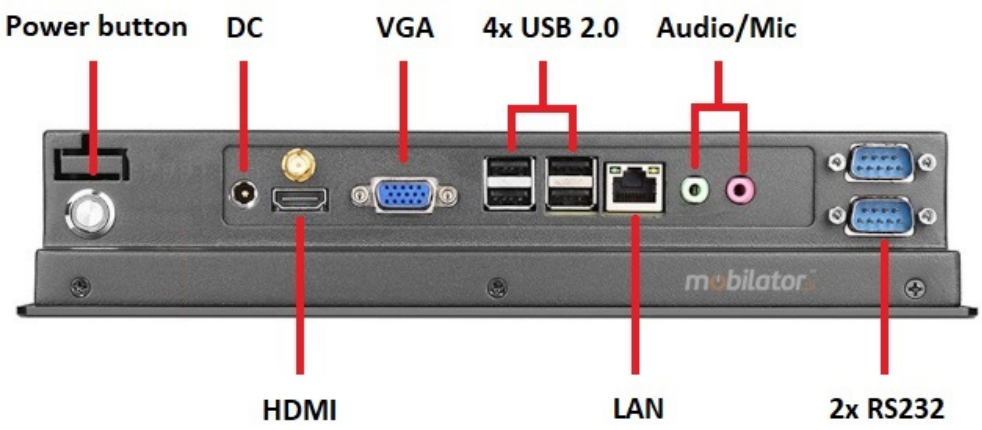
Bluetooth enables wireless short-range communication between various electronic devices, such as the keyboard, computer, laptop, palmtop, mobile phone and many others. In the fourth version of this standard, energy consumption was reduced considerably, at the expense of lower transfer costs, and real operating coverage increased.

4G MODULE (OPTIONAL)

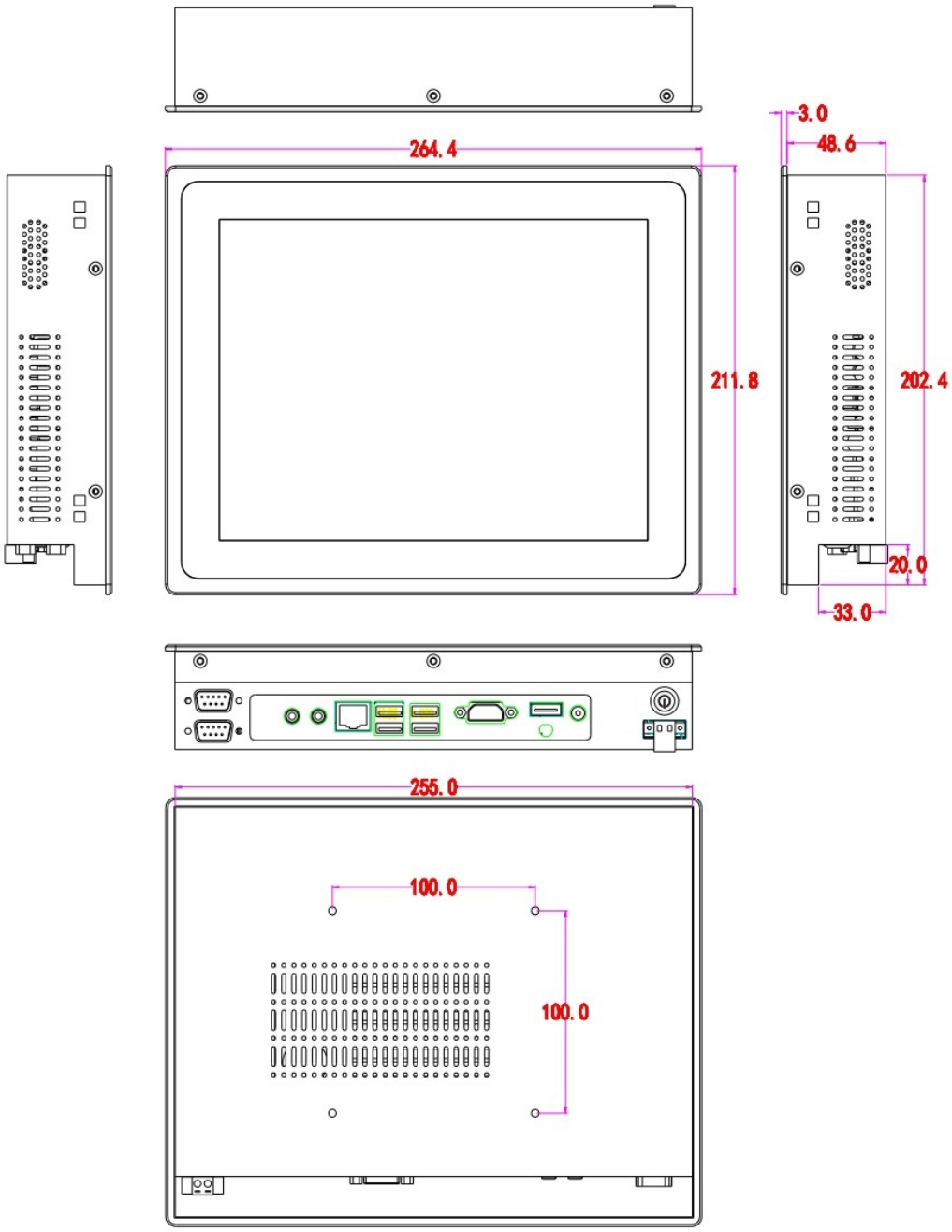
4G technology is based on a radio network with fast transmission and the rare occurrence of downtime or transfer errors. The main distinguishing feature of the 4G from its predecessor (3G) is the speed of transfer between devices. The fourth generation network offers 100 Mb / s of mobile internet speed and 25 Mb / s of packet transfer. Technology enables users, including: extremely fast radio networks, Internet access, personalized telephony, and access to

modern media and games services.

CONNECTORS AND INTERFACES



DIMENSIONS



Application

TRADE AND SERVICES

PC Panel is widely used primarily in the commercial industry, for example for controlling the sales system, displaying product information on monitors or advertising on large screens. With the VESA holder in the housing there are many possibilities for its assembly, eg in stores (at the cash register) in factory halls, in a car delivering products, etc. It will certainly be used in all types of retail chains.

WAREHOUSE AND MANAGEMENT

The industrial panel computer thanks to the RS232 interface can be used to connect many devices in the warehouse and facilitate their control. And its rugged housing is ideally suited to the harsh conditions prevailing in such rooms. No dust or dirt will prevent him from working, he will work without complaints even in a large dusty and dirty environment.

TRANSPORT AND MOTORIZATION

Panel computers can be used in transport by adapting it to work on 12V power supply. Then Panel PC can be used in passenger cars, buses, trams, taxis, trains and even in airplanes. Thanks to the integrated monitor, these panels perform very well in vehicles where mobility and the small size of the device are important.

Available versions

Industrial Panel PC BiBOX-104PC1 (i7-10th) is offered in several versions adapted to 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	v.6
WiFi + BT	—		—			

4G	—	—		—	—	—
4 GB RAM		—	—	—	—	—
8 GB RAM	—				—	
16 GB RAM	—	—	—	—		—
64 GB SSD		—	—	—	—	—
128 GB SSD	—	—	—	—	—	—
256 GB SSD	—			—	—	
512 GB SSD	—	—	—			—
Licence WINDOWS 10 PRO	—	—	—	—	—	