



Reinforced Capacitive Industrial Panel PC with built-in RFID HF reader - MobiBOX J1900 19

Category:	Industrial Panel PC Computers
Manufacturer:	Mobikator
Supported OS:	Microsoft Windows
Installed OS:	Windows 7/8/10
Screen size:	19"
Resolution:	1280 x 1024
Aspect ratio:	4:3
Brightness:	350 cd/m2
Touchscreen:	Capacitive
CPU Support:	Intel Celeron J1900
Installed CPU:	Intel Celeron J1900 (4x2.0GHz)
Graphic Card:	Intel HD Graphics
Storage (HDD) Support:	32GB/64GB/128GB SSD
Installed Storage (HDD):	64GB SSD
Memory Support:	up to 4GB
Installed Memory:	4GB

IP Norm:	IP65 (przedni panel)
IP Level (front panel):	IP65
IP Level (back panel):	-----
Temp:	-10°C ~ 60°C
Storage Temp:	-30°C ~ 60°C
Humidity:	10%~ 90%
Anti-shock:	-----
Anti-vibration:	-----
Barcode reader:	-----
RFID scanner (reader):	Yes, HF 13.56 MHz, virtual COM mode
Others:	Housing color: Black or Silver
Wireless LAN card:	Yes
3G:	No
Bluetooth:	Yes
GPS:	No
Ports - rear panel:	1x HDMI1x RS-2324x USB 2.01x VGA1x LAN1x DC-in
Ports - front panel:	-----
Ports - left panel:	-----
Ports - right panel:	-----
Expansion:	-----
Power:	12V DC-in
Power Consumption:	-----
Watch Dog Timer:	-----
Mounting VESA:	Yes
Folding Bracket (for office type working):	-----
Chipset:	Intel NM10 High Speed Chipset
CD/DVD Drive:	-----
Audio:	-----

TV Tuner:	-----
Backlight MTBF:	LED
Contrast Ratio:	1000:1
Dual display:	Yes
Viewing Angle:	-----
Touch Life(contacts):	-----
Surface hardness (display):	-----
Color Resolution:	16.7 M
Response time touch-panel (ms):	5
Housing material:	Aluminum
Dimensions:	451mm x 380mm x 59.2mm
Fanless:	Yes
Weight:	5kg

Product from the Archive - production finished



Specification and parameters

Display and touch

Resistance and protection

Communication and connectors

Application

Modules

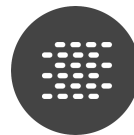
Available versions

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.



Waterproof

The IPX5 water-resistance standard on the front panel guarantees protection of the device for contact with water.



Dustproof

The dustproof IP6X standard on the front panel protects the panel against dust and access to hazardous parts.



Efficient



Bright Screen

The display with 350cd/ m² brightness makes the picture much more vivid and better readable when used outside in the sun.

The quad-core Intel Celeron processor supported by 4GB of RAM improves the device's performance.



Wireless network

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



Capacitive screen

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

Specifications and parameters

Performance	
Processor	Intel Celeron J1900 (4x 2.0GHz)
Graphics card	Intel HD
Operating system	Windows /7/8/10
RAM	4GB
Drive	64GB SSD
Display	

Screen	19" (1280x1024)
Touch screen	Capacitive
Brightness	350cd/m ²
Contrast	1000:1
Response time	5ms
Hardness	—
Interfaces	
Communication	Wi-Fi
Connectors	HDMI / VGA / RJ45 / 4x USB 2.0 / RS232 / Audio / DC 12V / RFID HF (virtual COM mode)
Memory card	-
SIM card	—
Other	
Protection	IP65 (front panel)
Dimensions	451mm x 380mm x 59.2mm
Weight	5kg



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

The dust-proof industrial PC panel uses an efficient and energy-saving Intel Celeron J1900 processor. 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" tab.

Display and touch

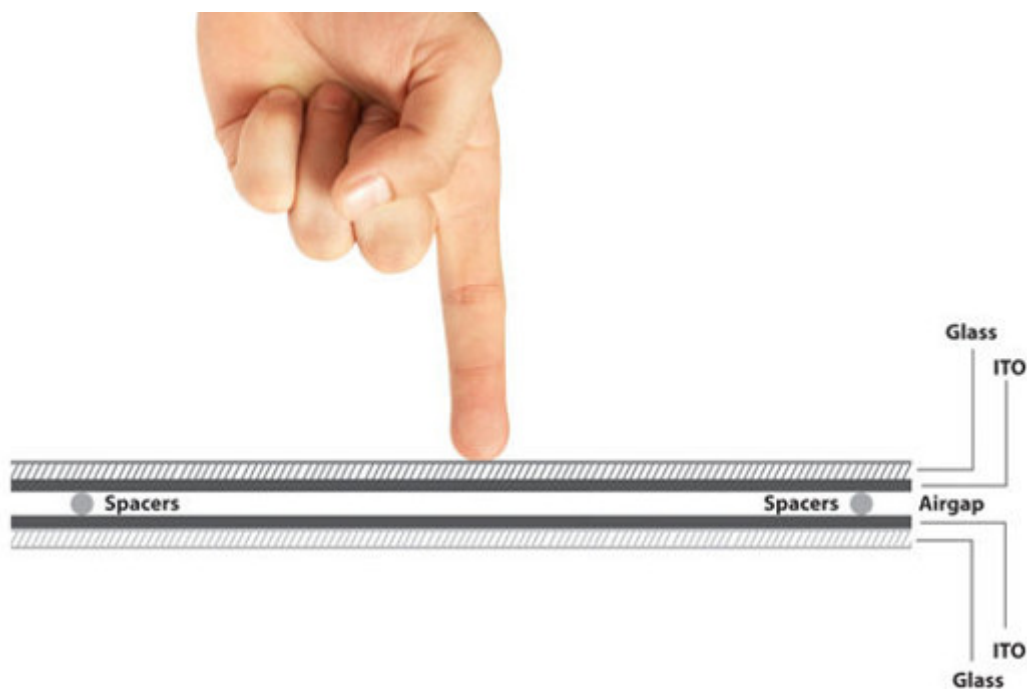
Amplified, waterproof industrial computer MobiBOX IP65 J1900 RFID HF 19 has a water-resistant and scratch-proof 19" LED screen 1280x1024 resolution offers good image quality, and high brightness in the 350 cd/m² range gives better color saturation and contrast and allows significantly improved visibility even in the case of incident.

CAPACITIVE SCREEN

In the capacitive screen, the reaction of the device is not to directly press the screen, but to change the electrostatic field at the point where the device is touched.

This allows for much more precise handling and gentle brushes on the screen.

In addition, we can use multitouch technology, the ability to control our screen with a few fingers at once.



Resistance and protection

PROTECTION STANDARD IP65

IP norm (International Protection Rating) determines the degree of protection provided by the housing of an electrical device against such factors as: access to dangerous parts inside the housing, penetration of foreign solids and splashing or immersion. The first characteristic number means that the housing protects people against access to dangerous parts located inside the device, and at the same time provides protection against penetration of foreign solids. The second characteristic digit means that the housing provides protection against the effects of water penetration.

IP6X (front panel)	Protection against access to dangerous parts with wire. Dustproof protection.
IPX5 (front panel)	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.



EXTREME TEMPERATURES

PanelPC MobiBOX IP65 J1900 RFID HF 19 is adapted for continuous operation in both very low and high temperatures in the range from -10 ° C to 60 ° C. If the device is switched off, it can already handle temperatures between -30 ° C and 60 ° C. In addition, the durable PanelPC is perfect for rooms with increased humidity, ensuring proper functioning even in the case of 90% relative humidity.

Work temp.	-10°C to 60°C
Storage temp.	-30°C to 60°C
Humidity	10% - 90%

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 MobiBOX J1900 IP65 RFID HF 19 has been equipped with standards - 802.11n, which allows transfer of files at a dizzying speed of up to 150 Mb/s.

Standards	802.11a/b/g/n
Frequencies	2.4GHz 5GHz

CONNECTORS AND INTERFACES



Application

TRADE AND SERVICES

Waterproof and dustproof 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.

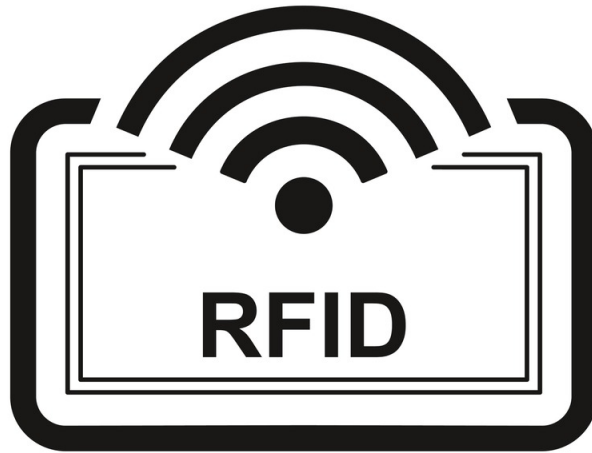
WAREHOUSE AND MANAGEMENT

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.

Modules



RFID is a technology used to identify objects to control the flow products. Reading of information from the special tags that are attached to objects (but not only, because RFID is also applicable to the identification of the animals and even humans) followed by radio. Depending on the type of tag changes the amount of information that can hold as well as the maximum distance at which data can be read. RFID tags, is an alternative to bar codes - more comfortable and more efficient. In this model there is the RFID HF reader operating at 13.56 MHz. RFID card reader used in the device works in virtual COM mode. To save readings as text files additional software is required.