



## Reinforced Capacitive Industrial Panel PC with RFID LF reader and scanner 2D - MobiBOX J1900 10.1

|                                 |                                |
|---------------------------------|--------------------------------|
| <b>Category:</b>                | Industrial Panel PC Computers  |
| <b>Manufacturer:</b>            | Mobilator                      |
| <b>Screen size:</b>             | 10.1"                          |
| <b>Resolution:</b>              | 1280 x 800                     |
| <b>Aspect ratio:</b>            | 16:9                           |
| <b>Touchscreen:</b>             | Capacitive                     |
| <b>Chipset:</b>                 | Intel NM10 High Speed Chipset  |
| <b>CPU Support:</b>             | Intel Celeron J1900            |
| <b>Installed CPU:</b>           | Intel Celeron J1900 (4x2.0GHz) |
| <b>Memory Support:</b>          | up to 4GB                      |
| <b>Installed Memory:</b>        | 4GB                            |
| <b>Graphic Card:</b>            | Intel HD Graphics              |
| <b>Audio:</b>                   | -----                          |
| <b>Storage (HDD) Support:</b>   | 32GB/64GB/128GB SSD            |
| <b>Installed Storage (HDD):</b> | 64GB SSD                       |

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| <b>CD/DVD Drive:</b>                   | -----                                          |
| <b>Wireless LAN card:</b>              | Yes                                            |
| <b>Bluetooth:</b>                      | Yes                                            |
| <b>3G:</b>                             | No                                             |
| <b>GPS:</b>                            | No                                             |
| <b>TV Tuner:</b>                       | -----                                          |
| <b>Watch Dog Timer:</b>                | -----                                          |
| <b>Ports - front panel:</b>            | -----                                          |
| <b>Ports - rear panel:</b>             | 1x HDMI1x RS-2324x USB 2.01x VGA1x LAN1x DC-in |
| <b>Ports - left panel:</b>             | -----                                          |
| <b>Ports - right panel:</b>            | -----                                          |
| <b>Power:</b>                          | 12V DC-in                                      |
| <b>Supported OS:</b>                   | Microsoft Windows                              |
| <b>Installed OS:</b>                   | Windows 7/8/10                                 |
| <b>Dimensions:</b>                     | 294mm x 194mm x 58.5mm                         |
| <b>Weight:</b>                         | 5kg                                            |
| <b>Expansion:</b>                      | -----                                          |
| <b>Fanless:</b>                        | Yes                                            |
| <b>Humidity:</b>                       | 10%~ 90%                                       |
| <b>Temp:</b>                           | -10°C ~ 60°C                                   |
| <b>Storage Temp:</b>                   | -30°C ~ 60°C                                   |
| <b>IP Norm:</b>                        | IP65 (przedni panel)                           |
| <b>IP Level (back panel):</b>          | -----                                          |
| <b>IP Level (front panel):</b>         | IP65                                           |
| <b>Dual display:</b>                   | Yes                                            |
| <b>Response time touch-panel (ms):</b> | 5                                              |
| <b>Contrast Ratio:</b>                 | 800:1                                          |
| <b>Brightness:</b>                     | 300 cd/m2                                      |

|                                                   |                                |
|---------------------------------------------------|--------------------------------|
| <b>Viewing Angle:</b>                             | -----                          |
| <b>Backlight MTBF:</b>                            | LED                            |
| <b>Color Resolution:</b>                          | 16.7 M                         |
| <b>Surface hardness (display):</b>                | -----                          |
| <b>Touch Life(contacts):</b>                      | -----                          |
| <b>Housing material:</b>                          | Aluminum                       |
| <b>Mounting VESA:</b>                             | Yes                            |
| <b>Folding Bracket (for office type working):</b> | -----                          |
| <b>Power Consumption:</b>                         | -----                          |
| <b>Others:</b>                                    | Housing color: Black or Silver |
| <b>Anti-vibration:</b>                            | -----                          |
| <b>Anti-shock:</b>                                | -----                          |
| <b>RFID scanner (reader):</b>                     | Yes, LF 125 KHz                |
| <b>Barcode reader:</b>                            | 2D QR Newland                  |

**Product from the Archive - production finished**



Specification and parameters

Display and touch

Resistance and protection

Communication and connectors

Application

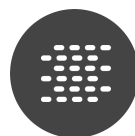
Modules

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

The display with 300cd/ m<sup>2</sup> brightness makes the picture much more vivid and better readable when used outside in the sun.



### 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           | 10.1" (1280x800)                                                       |
| Touch screen     | Capacitive                                                             |
| Brightness       | 300cd/m <sup>2</sup>                                                   |
| Contrast         | 800:1                                                                  |
| Response time    | 5ms                                                                    |
| Hardness         | —                                                                      |
| Interfaces       |                                                                        |
| Communication    | Wi-Fi                                                                  |
| Connectors       | HDMI / VGA / RJ45 / 4x USB 2.0 / RS232 / Audio / DC 12V /<br>RFID LF / |
| Barcodes scanner | 2D QR                                                                  |
| SIM card         | —                                                                      |
| Other            |                                                                        |
| Protection       | IP65 (front panel)                                                     |
| Dimensions       | 294mm x 194mm x 58.5mm                                                 |
| 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 two 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

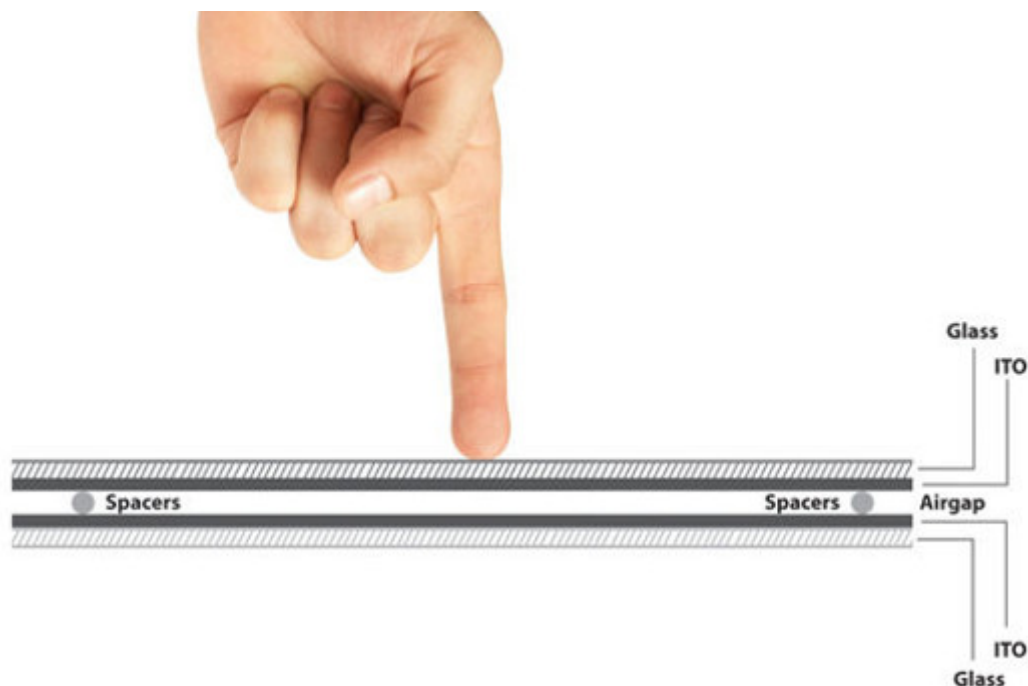
Amplified, waterproof industrial computer MobiBOX IP65 J1900 RFID LF 2D QR 10.1 has a water-resistant and scratch-proof 10.1" LED screen 1280x800 resolution offers good image quality, and high brightness in the 300 cd/m<sup>2</sup> range gives better color saturation and contrast and allows significantly 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.

|                           |                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------|
| <b>IP6X (front panel)</b> | Protection against access to dangerous parts with wire.<br>Dustproof protection.                         |
| <b>IPX5 (front panel)</b> | 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 LF 2D QR 10.1 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 LF 2D QR 10.1 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.

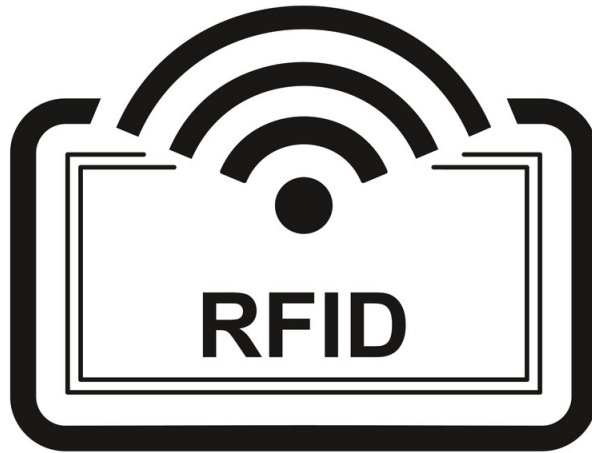
## **WAREHOUSE AND MANAGEMENT**

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**

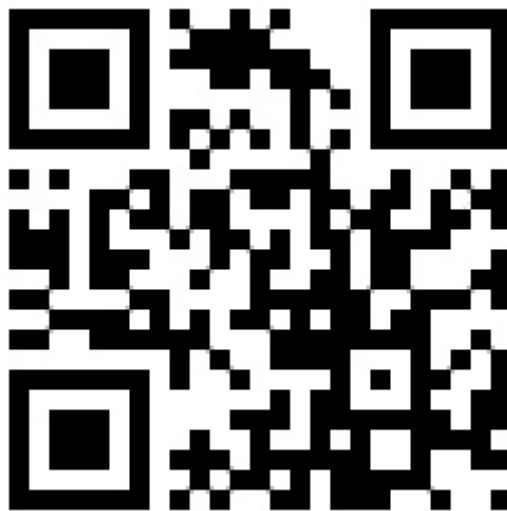
Panel computers can be used in transport by adapting it to work on 12V power supply. Then Panel PC can be used in passenger cars, buses, trams, taxis, trains and even in airplanes. Thanks to the integrated monitor, these panels perform very well in vehicles where mobility and the small size of the device 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 LF reader operating at 125 KHz.

**BARCODE SCANNER**



A barcode scanner enables you to read, decode and send data to a computer written in a bar code. With dynamic scanning capabilities and a large reading range, the data computer gets the data accurately, helping to increase speed and productivity. You can quickly launch the scanner because of the simplified installation procedure and intuitive, convenient construction of the scanner to work is very ease. In this model was installed a 2D scanner.