



Reinforced Capacitive Industrial Panel PC  
with built-in RFID HF reader - MobiBOX 10.1  
Android

<b>Category:</b>	Industrial Panel PC Computers
<b>Manufacturer:</b>	Mobikator
<b>Supported OS:</b>	Android
<b>Installed OS:</b>	Android 6.0
<b>Screen size:</b>	10.1"
<b>Resolution:</b>	1280 x 800
<b>Aspect ratio:</b>	16:9
<b>Brightness:</b>	300 cd/m2
<b>Touchscreen:</b>	Capacitive
<b>CPU Support:</b>	A64 Quad-Core ARM Cortex-A53
<b>Installed CPU:</b>	ARM Cortex-A53 (4x1.5GHz)
<b>Graphic Card:</b>	Integrated
<b>Storage (HDD) Support:</b>	8GB eMMC
<b>Installed Storage (HDD):</b>	8GB eMMC
<b>Memory Support:</b>	up to 2GB
<b>Installed Memory:</b>	2GB
<b>IP Norm:</b>	IP65 (przedni panel)
<b>IP Level (front panel):</b>	IP65

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

<b>Contrast Ratio:</b>	800:1
<b>Dual display:</b>	Yes
<b>Viewing Angle:</b>	-----
<b>Touch Life(contacts):</b>	-----
<b>Surface hardness (display):</b>	-----
<b>Color Resolution:</b>	16.7 M
<b>Response time touch-panel (ms):</b>	5
<b>Housing material:</b>	Aluminum
<b>Dimensions:</b>	294mm x 194mm x 58.5mm
<b>Fanless:</b>	Yes
<b>Weight:</b>	5kg

**3 201,08 zł**

net price: 2 602,50 zł



Specification and parameters

Display and touch

Resistance and protection

Communication and connectors

Application

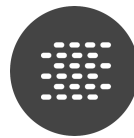
Modules

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

The quad-core ARM Cortex-A53 processor supported by 2GB of RAM improves the device's performance.



### Bright Screen

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	ARM Cortex-A53 (4x 1.5GHz)
Graphics card	Integrated
Operating system	Android 6.0

Performance	
RAM	2GB
Drive	8GB eMMC
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 / RFID HF (virtual COM mode)
Memory card	-
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".

The dust-proof industrial PC panel uses an efficient and energy-saving ARM Cortex 53 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".

## Display and touch

Amplified, waterproof industrial computer MobiBOX IP65 RFID HF 10.1 has a water-resistant and scratch-proof 10.1" LCD screen 1280x800 resolution offers good image quality, and high brightness in the 300 cd/m<sup>2</sup> range gives better

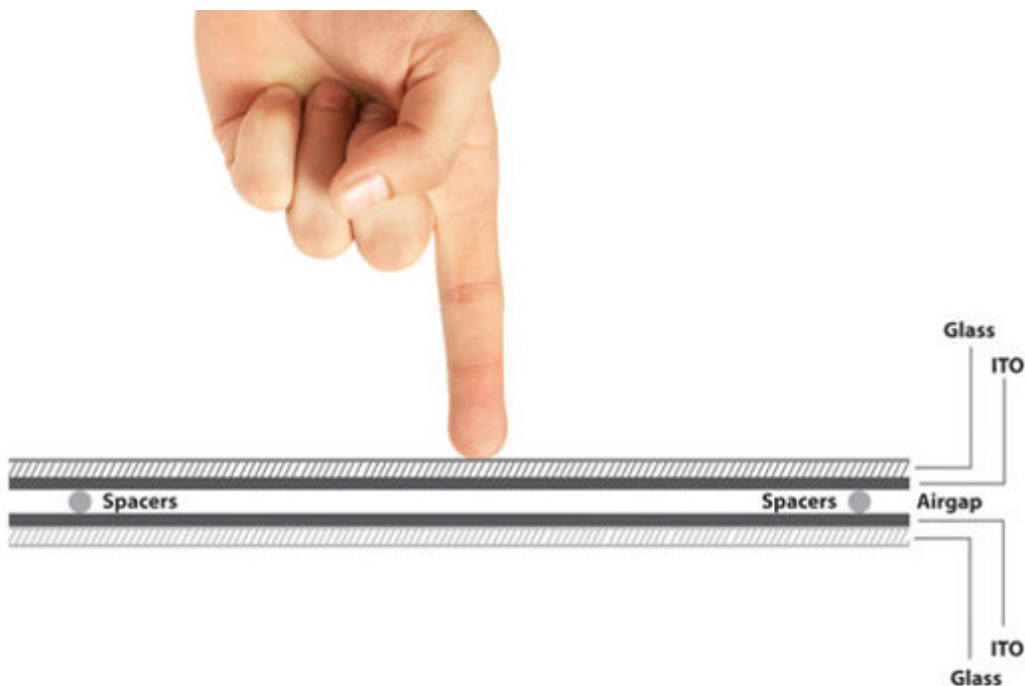
color saturation and contrast and allows significantly improved visibility even in the case of incident.

## 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. 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 RFID HF 10.1 is adapted for continuous operation in both very low and high temperatures in the range from  $-10^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ . If the device is switched off, it can already handle temperatures between  $-30^{\circ}\text{C}$  and  $60^{\circ}\text{C}$ . 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.	$-10^{\circ}\text{C}$ to $60^{\circ}\text{C}$
Storage temp.	$-30^{\circ}\text{C}$ to $60^{\circ}\text{C}$
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 IP65 RFID HF 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

#### **READER** **RFID**



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 th

masimum 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.