



## Durable waterproof Industrial Touch Panel Computer IP67 - QBOX 12 (3855U) v.5

<b>Category:</b>	Industrial Panel PC Computers
<b>Manufacturer:</b>	Mobilator
<b>Supported OS:</b>	Windows   Linux
<b>Installed OS:</b>	---
<b>Screen size:</b>	12"
<b>Resolution:</b>	800x600
<b>Aspect ratio:</b>	16:9
<b>Brightness:</b>	400 cd/m2
<b>Touchscreen:</b>	Capacitive
<b>CPU Support:</b>	Intel® Celeron 3855U (2x 1.60 GHz)
<b>Installed CPU:</b>	Intel® Celeron 3855U (2x 1.60 GHz)
<b>Graphic Card:</b>	Intel® HD Graphics 510
<b>Storage (HDD) Support:</b>	up to 256 GB SSD
<b>Installed Storage (HDD):</b>	256 GB SSD
<b>Memory Support:</b>	up to 8GB

<b>Installed Memory:</b>	4GB DDR4
<b>IP Norm:</b>	IP67
<b>IP Level (front panel):</b>	IP67
<b>IP Level (back panel):</b>	IP67
<b>Temp:</b>	0°C ~ 60°C
<b>Storage Temp:</b>	-20°C ~ 80°C
<b>Humidity:</b>	10%~ 95%
<b>Anti-shock:</b>	-----
<b>Anti-vibration:</b>	-----
<b>Barcode reader:</b>	-----
<b>RFID scanner (reader):</b>	-----
<b>Others:</b>	Housing color:Silver
<b>LAN:</b>	Intel 82583V Gigabit Ethernet
<b>Wireless LAN card:</b>	---
<b>3G:</b>	---
<b>Bluetooth:</b>	---
<b>GPS:</b>	No
<b>Ports - rear panel:</b>	DC 12V RJ-45 2x USB 2.0 (opcja USB 3.0) VGA RS 232 (Possibility to exchange connections)
<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>	Intel® Soc

<b>CD/DVD Drive:</b>	---
<b>Audio:</b>	RTL ALC662 6-Channel HD Audio
<b>TV Tuner:</b>	-----
<b>Backlight MTBF:</b>	LED
<b>Contrast Ratio:</b>	800:1
<b>Dual display:</b>	Nie
<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>	302x232x40 mm
<b>Fanless:</b>	Yes
<b>Weight:</b>	2.5

**Product from the Archive - production finished**

# QBOX 12



## SPECIFICATION AND PARAMETERS

## DISPLAY AND TOUCH

## RESISTANCE AND PROTECTION

## COMMUNICATION AND CONNECTORS

## APPLICATION

## AVAILABLE VERSIONS AND ACCESSORIES

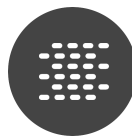
Industrial PC panels are integrated devices consisting of a PC computer and a touch monitor. Due to their design, they can work even under severe conditions prevailing in industrial environments, such as high humidity, high

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 IPX7 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 dual-core Intel Celeron 3855U processor supported by 4GB of RAM improves the device's performance.



#### Bright Screen

The display with 400cd/ 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 3855U (2X1,60 GHz)
Graphics card	Intel HD Graphics 510
Operating system	Windows (suppotred)
RAM	4GB DDR4
Drive	256 GB SSD
Display	
Screen	12" (800x600)
Touch screen	Capacitive
Brightness	400cd/m <sup>2</sup>
Contrast	800:1
Response time	10PT:80MH
Hardness	—
Interfaces	
Communication	Intel 82583V Gigabit Ethernet Wi-Fi
Connectors	DC 12V   RJ-45   2x USB 2.0 (USB 3.0 option)   VGA   RS 232 (Possibility to swap connectors)
Other	
Protection	IP 67
Dimensions	302x232x40 mm
Weight	2.5 kg

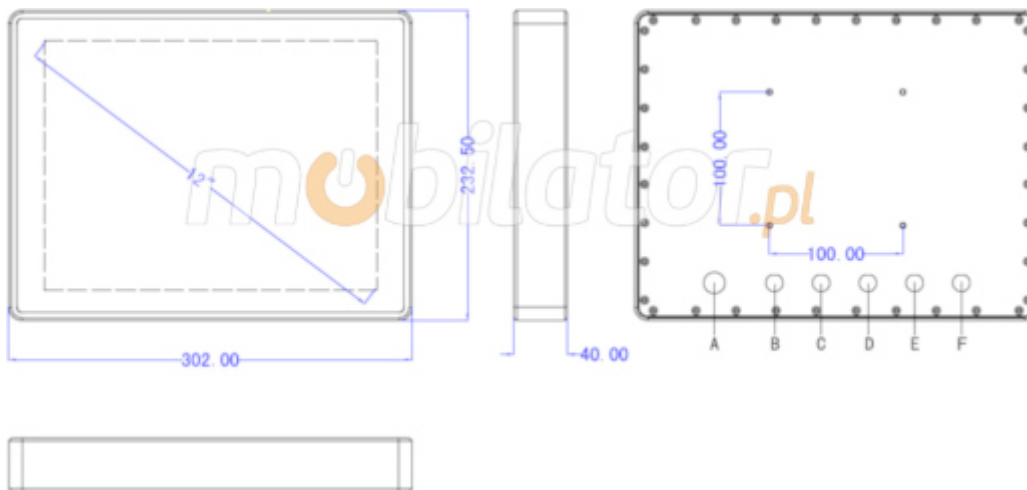
[v.1](#)  
[v.2](#)  
[v.3](#)  
[v.4](#)  
[v.5](#)  
[v.6](#)  
[v.4.1](#)  
[v.5.1](#)

WiFi	-	-	+	+	+	+	+	+
4GB RAM	+	+	+	-	+	-	-	-
8GB RAM	-	-	-	+	-	+	-	+
32GB SSD	+	-	-	-	-	-	+	-
64GB SSD	-	+	+	-	-	-	-	-
128GB SSD	-	-	-	+	-	-	+	-
256GB SSD	-	-	-	-	+	-	-	+
500GB HDD	-	-	-	-	-	+	-	-



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

The dust-proof industrial PC panel uses an efficient and energy-saving Intel Celeron 3855U processor. The shared cache memory that uses a multi-level hierarchy is dynamically allocated to each processor core depending on the load. This reduces the average access time to the main memory.



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

## Display and touch

The enhanced, waterproof QBOX industrial computer has a 12" water-resistant LED screen, 800X600 resolution, good image quality and high brightness of 400 cd / m<sup>2</sup> for better color saturation and contrast, and significantly improved visibility, even in cases of sunbeams falling on the screen.

### **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

### PROTECTION STANDARD **IP67**

Normatyw IP (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 the penetration of foreign solids. The second characteristic digit means that the housing provides protection against the effects of water penetration.

IP67

With short-term immersion.  
Protection against access to dangerous parts with wire.  
Dustproof protection.  
Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.



## EXTREME TEMPERATURES

PanelPC QBOX is adapted for continuous operation in both very low and high temperatures ranging from 0° C to 60 ° C. If the device is switched off, it can already handle temperatures between -20 ° C and 80° C. In addition, the durable PanelPC is perfect for rooms with increased humidity, ensuring proper functioning even in the case of 95% relative humidity.

<b>Work temp.</b>	0°C to 60°C
<b>Storage temp.</b>	-20°C to 80°C
<b>Humidity</b>	10% - 95%

## 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 QBOX shockproof industrial panel has been equipped with 802.11n standards, which allows transfer of files at a dizzying speed of up to 150 Mb / s.

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

### WIRED LAN NETWORK

Panel PC have built-in Intel 82583V Gigabit Ethernet NIC. The network card can work in gigabit network.

Standard	IEEE 802.3, 802.3u, 802.3ab - 1000Base-T
Speed	1Gb/s

## 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.

