



intel<sup>®</sup>



BiBox 215-I58 v.1 - Rugged 21.5-inch panel PC, 1920x1080 screen, Intel Core i5-8250U, 8GB RAM, 128GB SSD, dual RS232, 2x LAN, IP65 front panel - for Smart Factory and IoT systems

<b>Category:</b>	Industrial Panel PC Computers
<b>Manufacturer:</b>	Mobilator
<b>Screen size:</b>	21.5 inch
<b>Resolution:</b>	1920x1080
<b>Aspect ratio:</b>	16:9
<b>Touchscreen:</b>	Capacitive
<b>Chipset:</b>	---
<b>CPU Support:</b>	Intel Core i3, i5, i7 - 8 generation
<b>Installed CPU:</b>	Intel core i5-8250U Fanless
<b>Memory Support:</b>	DDR4
<b>Installed Memory:</b>	8GB
<b>Graphic Card:</b>	CPU Integrated graphics HD Graphics support 1080p HD photo quality
<b>Audio:</b>	Realtek ALC662   High Definition Audio (HD) Line in   Line out
<b>Storage (HDD) Support:</b>	SSD
<b>Installed Storage (HDD):</b>	128GB

<b>CD/DVD Drive:</b>	No
<b>LAN:</b>	2 ports RJ-45
<b>Wireless LAN card:</b>	No (optional)
<b>Bluetooth:</b>	No (optional)
<b>3G:</b>	No (optional)
<b>4G LTE:</b>	No (optional)
<b>GPS:</b>	No (optional)
<b>TV Tuner:</b>	No
<b>Watch Dog Timer:</b>	Yes
<b>Ports - front panel:</b>	-----
<b>Ports - rear panel:</b>	USBx4   HDMIx1   LANx2   RS232x2   MIC EARx1   Power DC12V
<b>Ports - left panel:</b>	-----
<b>Ports - right panel:</b>	-----
<b>Power:</b>	Ext.Power Supply AC100-240VWorking voltage DC12V   Power consumption ≤80W
<b>Supported OS:</b>	Windows
<b>Installed OS:</b>	Windows 11 protest version(optional - licensed SYSTEM)
<b>Dimensions:</b>	525.8x317.3x52mm
<b>Weight:</b>	6kg
<b>Expansion:</b>	---
<b>Fanless:</b>	Yes
<b>Humidity:</b>	5% - 95% Non-Condensing
<b>Temp:</b>	-10 °C to 60 °C
<b>Storage Temp:</b>	-20 °C to 70 °C
<b>IP Norm:</b>	IP65
<b>IP Level (back panel):</b>	-----
<b>IP Level (front panel):</b>	IP65
<b>Dual display:</b>	---
<b>Response time touch-panel (ms):</b>	15 ms

<b>Contrast Ratio:</b>	1000:1
<b>Brightness:</b>	250 nits
<b>Viewing Angle:</b>	89°/89°/89°/89°(R/L/U/D)
<b>Backlight MTBF:</b>	---
<b>Color Resolution:</b>	16.7 million
<b>Surface hardness (display):</b>	7H
<b>Touch Life(contacts):</b>	50 000
<b>Housing material:</b>	Metal
<b>Mounting VESA:</b>	100 x 100 mm
<b>Folding Bracket (for office type working):</b>	No (optional)
<b>Power Consumption:</b>	---
<b>Others:</b>	---
<b>Anti-vibration:</b>	5-500Hz,0.026G <sup>2</sup> /Hz,2.16Grms,X,Y,Z1 hour per axis
<b>Anti-shock:</b>	----
<b>RFID scanner (reader):</b>	No
<b>Barcode reader:</b>	No

**2 939,95 zł**

net price: 2 390,20 zł

# BiBox 215-I58



## CERTIFICATES

## SPECIFICATION

## RESISTANCE

## WIRELESS COMMUNICATION

## APPLICATION

## ACCESSORIES AND AVAILABLE VERSIONS

The BiBox 215-I58 Industrial Panel PC is a durable and versatile solution that combines the performance of a desktop computer with the convenience of a touchscreen interface. Featuring a 21.5-inch Full HD (1920×1080 px) display and an energy-efficient Intel Core i5-8250U processor, it delivers high computing power with low energy consumption. The IP65-rated front panel protects against dust, splashes, and vibrations, making it ideal for use in

production halls, assembly lines, and control systems. The touch-screen computer BiBox 215-I58 ensures stable and reliable performance even in harsh industrial environments.

## CERTIFICATES



The BiBox 215-I58 panel PC holds key CE, FCC, and RoHS certifications, confirming compliance with international safety and quality standards. The CE mark ensures conformity with EU directives, FCC guarantees electromagnetic compatibility, and RoHS confirms the absence of hazardous materials. This comprehensive certification proves that the device meets the highest technical, environmental, and operational standards.

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## SPECIFICATION

BiBox 215-I58	
Certifications	CE   FCC   RoHS
Network	1x Realtek RTL 8111E Gigabit Ethernet controller
Processor	Intel Core i5-8250U Fanless
Graphics	Integrated
Operating system	Test version of Windows 11 Pro Windows 11 Pro *(optional)
Memory	8GB RAM 16GB *(optional)
SSD	128GB 256GB *(optional) 512GB *(optional)
Display	21.5" (1920x1080) 250 nits 1000 nits *(optional)
Touch screen	Capacitive (10-point)
Viewangle	89°/89°/89°/89° (R/L/U/D)
Protection	IP65 (front panel)
Communication	BT   WiFi *(optional) WiFi 6 *(optional) 4G *(optional)

## BiBox 215-I58

1x MIC | 4x USB | 2x LAN | 1x EAR 1x HDMI | Power DC12V | 2x RS232

### Connectors

RS485 instead of 1x RS232

\* (optional)

RS422 instead of 1x RS232

\* (optional)

4 additional RS232 ports

\* (optional)

9-36V power supply

\* (optional)



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

The BiBox 215-I58 is an advanced, industrial panel PC driven by the energy-efficient Intel Core i5-8250U processor, designed for demanding industrial environments. Its four cores and eight threads deliver excellent multitasking performance, while the large cache memory ensures fast data access and smooth operation of complex applications.

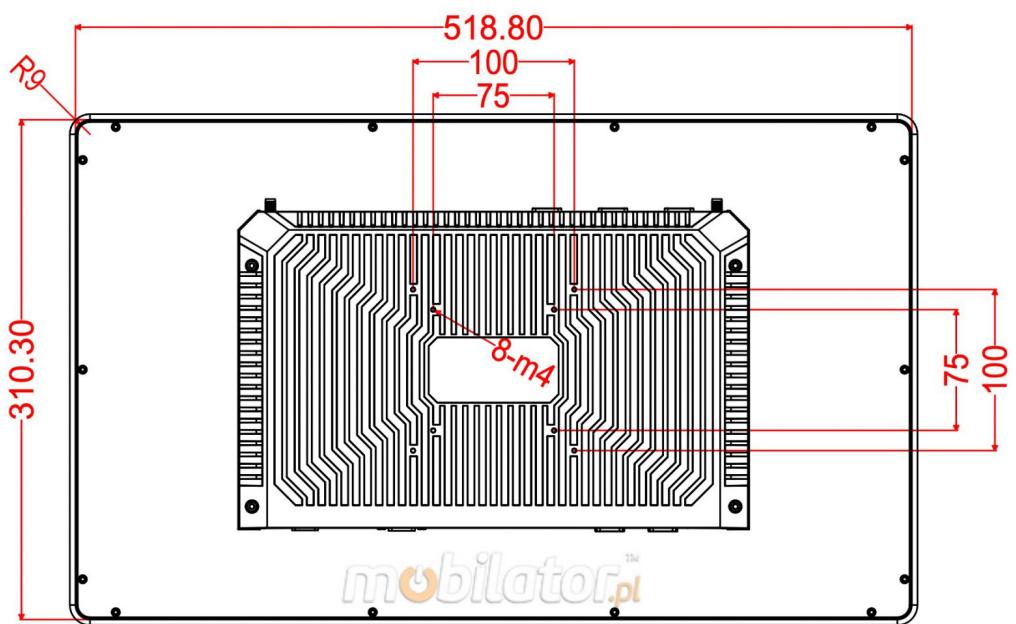
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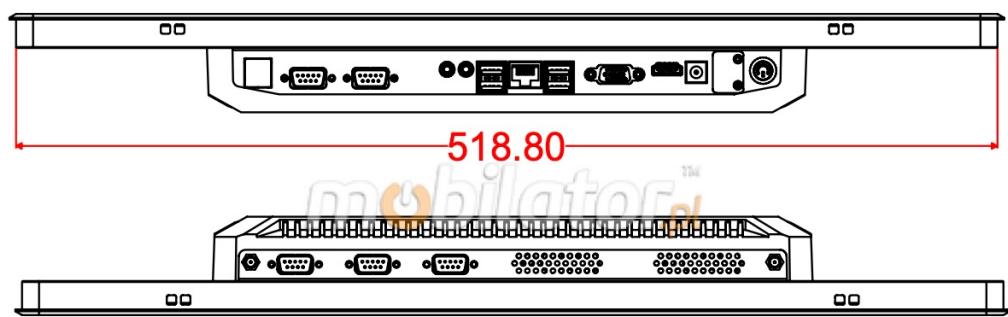
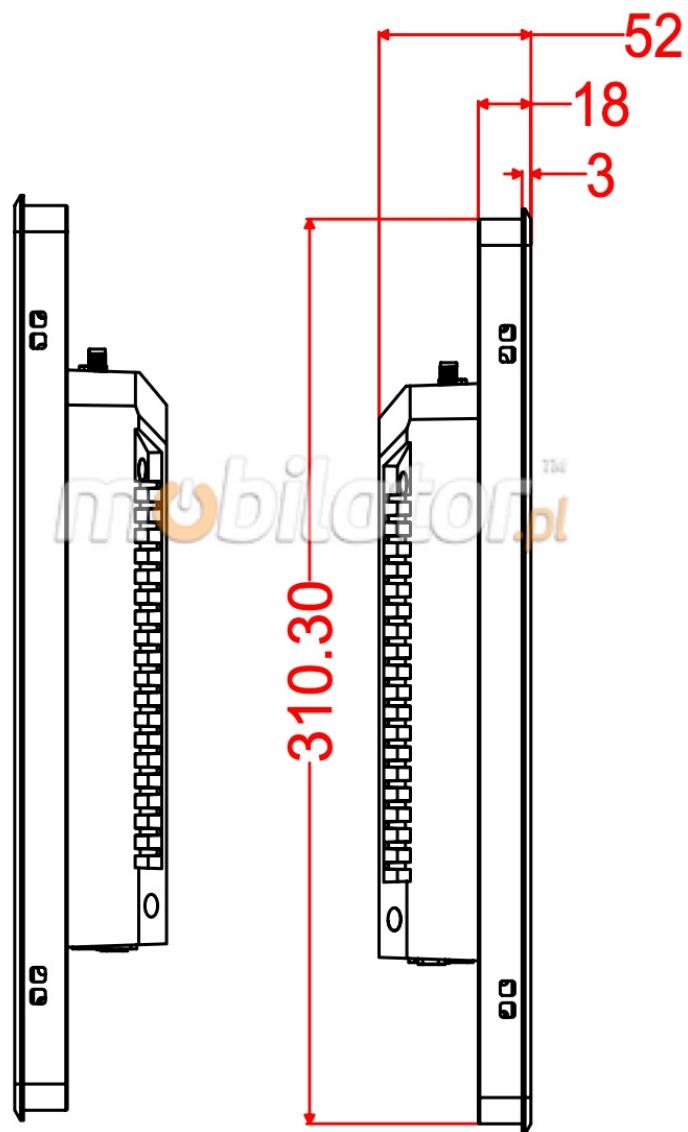
### Dimensions

The durable BiBox 215-I58 industrial panel PC measures 525.8 × 317.3 × 52 mm and features a slim, space-saving design perfectly suited for control cabinets and limited industrial environments.

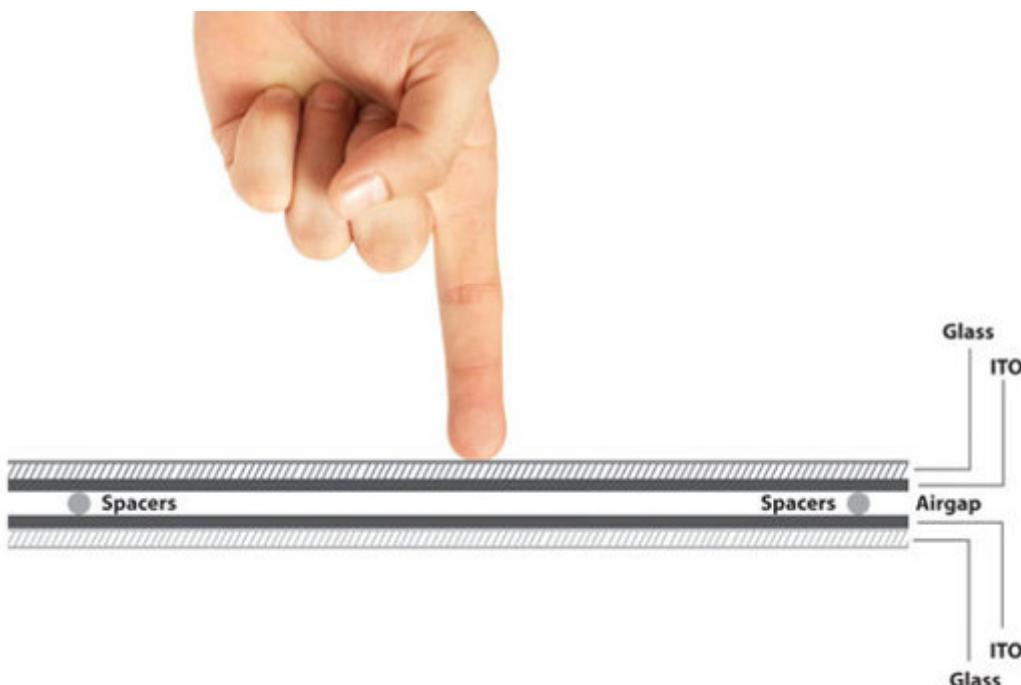
### Dimensions

525.8 × 317.3 × 52 mm





## Capacitive screen



A capacitive screen detects touch by changing the electrostatic field created when you touch the screen with your finger. Unlike resistive technology, it doesn't require any physical pressure. This makes operation precise and fluid, with the screen responding to even the lightest touches. This technology also supports multitouch, allowing for simultaneous recognition of multiple touch points, enabling gestures such as zooming or rotating.

Aluminium Bezel Style  
\*(option)



## ALUMINIUM BEZEL STYLE

Aluminum Bezel Style is a solution in which the screen frame is made of aluminum or finished with this material. This gives the device an immediate, premium look and significantly increases the feeling of solidity. Aluminum, being a more durable and rigid material than plastic, provides better protection against scratches and damage. Furthermore, in addition to its aesthetic appeal, this metal dissipates heat more effectively while maintaining the device's slim profile without compromising structural strength.

\*At the customer's request, it is possible to order the BiBox 215-I58 device in the Aluminum Bezel Style version. Version available in the configurator.

250-nits screen



The BiBox 215-I58 is a solid, rugged and reliable industrial panel PC designed for efficient operation in demanding indoor and outdoor environments. Its 250-nit brightness display ensures excellent visibility in shaded areas or under moderate sunlight. This optimized luminance allows for comfortable operation and clear data monitoring, regardless of lighting conditions.

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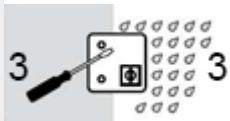
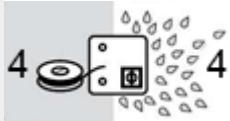
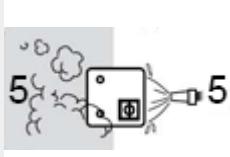
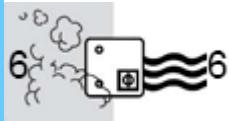
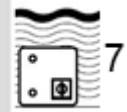
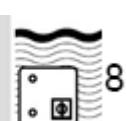
## RESISTANCE

IP65



The IP65-rated front panel provides complete protection against dust and resistance to powerful water jets from any direction. This makes it an excellent, reliable, and durable solution for demanding operating conditions where the device is exposed to atmospheric conditions but not to complete immersion in water

	Firts digit	Protection level	Second digit
No special protection	0		0
Protection from solid objects greater than 50mm in diameter	1		1

First digit	Protection level	Second digit
Protection from object not greater than 12mm in diameter	 <b>2</b>	Protection from vertically dripping water (tilted up to 15°)
Protection from object not greater than 2,5mm in diameter	 <b>3</b>	Protection from sprayed water (tilted up to 60°)
Protection from object not greater than 1mm in diameter	 <b>4</b>	Protection from splashed water
Complete protection against contact, Protection against dust deposit	 <b>5</b>	Protection from water projected from a nozzle
Complete protection against contact, protection from infiltration of dust	 <b>6</b>	Protection against heavy seas, or powerful jets of water
	 <b>7</b>	Protection against immersion
	 <b>8</b>	Protection against complete, continuous submersion in water

## Extreme temperatures

The BiBox 215-I58 is engineered for operation in the harshest conditions. Its rugged, reinforced design ensures reliable performance in a wide temperature range from -10°C to 60°C and in high-humidity environments of up to 95% relative humidity (non-condensing). This thermal resilience also extends to storage, safe from -20°C to 70°C, providing maximum flexibility in logistics and warehousing.

<b>Working Temp.</b>	-10°C do 60°C
<b>Storage Temp.</b>	-20°C do 70°C
<b>Humidity</b>	5% do 95%

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## COMMUNICATIONS AND CONNECTIONS



## Communication

The device features two versatile Mini-PCIe expansion slots, allowing the installation of additional modules. You can add a WiFi card for wireless internet, a 3G/4G module for mobile connectivity, or an mSATA drive to expand storage. This capability makes the panel highly flexible and easily customizable for a wide range of industrial applications.

## Ports

The PC panel BiBox 215-I58 provides a comprehensive set of connectors for maximum functionality in industrial environments. Connectivity includes four USB ports, an HDMI video output, and dual LAN ports for stable network communication. Two RS-232 (one port can be replaced with either RS485 or RS422) serial ports are essential for system integration, while full audio support includes a microphone input (MICx1) and headphone output (EARx1). Powered by DC 12V, the panel's modern design eliminates the outdated VGA port, highlighting its contemporary industrial appeal. On client's wish, four additional RS-232 ports can be added.

## APPLICATION

## Trade and Services

The BiBox 215-I58 Panel PC is an exceptionally versatile tool that performs well in both intensive industrial environments and the retail sector. Designed for centralized system control, the efficient display of detailed information (e.g., about products or production line status), and the dynamic presentation of content, including advertising, the device's true strength lies in its installation flexibility: thanks to full VESA compatibility, the panel can be

quickly and securely mounted in almost any location. Regardless of the application—whether it's a cash register terminal, a process monitoring point on the factory floor, or a fleet management component for delivery vehicles—the BiBox 215-I58 guarantees reliability, perfectly suited to any demanding operational network.



### Industry and Construction

Specialized panel computers are synonymous with reliability in the harshest operating environments. Their reinforced enclosures, certified to the IP65 (front panel) standard, provide complete resistance to dust and powerful water jets. This makes devices like the BiBox 215-I58 the ideal choice for applications where traditional equipment would quickly deteriorate – from demanding construction sites, to dynamic logistics centers, to intensive production lines. This durability allows you to rely on your equipment without

fear of damage.

## Warehouse

This reliable panel computer was created to accelerate warehouse operations. Equipped with RS-232 interfaces, it enables centralized device control, making management simple and efficient. Furthermore, its durable construction is fully resistant to industrial factors such as dust and dirt. This ensures stable and reliable operation even in the harshest and most polluted production environments.



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## ACCESSORIES AND AVAILABLE VERSIONS

The BiBox 215-I58 heavy-duty panel PC is available in several versions tailored to different needs. Clicking on the hardware configuration number will redirect you to the product with the parameters listed in the table below. Furthermore, upon request, we can create a configuration not currently available.

	v.1	v.2	v.3	v.4	v.5	v.6	v.7	v.8
BT + WiFi	—							
Windows 11 Pro	—	—	—	—				
4G + WiFi 6	—	—	—	—	—	—	—	—
1000 nit	—	—	—		—	—	—	
8GB RAM + 128GB SSD			—	—	—	—	—	—
8GB RAM + 256GB SSD	—	—			—	—	—	—
16GB RAM + 512GB SSD	—	—	—	—	—	—	—	



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