BiBox 238-I58 v.3 - 23.8 inch industrial panel computer, Intel i5-8250U, 8/256GB, 1920x1080 300 nits screen, RS232 x2, Dual LAN - For interactive kiosks and information points

IP65

Category:	Industrial Panel PC Computers
Manufacturer:	Mobilator
Screen size:	23.8 inch
Resolution:	1920x1080
Aspect ratio:	16:9
Touchscreen:	Capacitive
Chipset:	---
CPU Support:	---
Installed CPU:	Intel core i5-8250U Fanless
Memory Support:	DDR4
Installed Memory:	8GB
Graphic Card:	CPU Integrated graphics HD Graphicssupport 1080p HD photo quality
Audio:	Realtek ALC662	High Definition Audio (HD)Line in	Line out
Storage (HDD) Support:	SSD
Installed Storage (HDD):	**Dysk SSD 256 GB**
CD/DVD Drive:	No

LAN:	2 ports
Wireless LAN card:	---
Bluetooth:	Yes
3G:	2x Mini-PCIE expansion slotsupport WIFI/3G/4G/MSTA/GPS
4G LTE:	Optional
GPS:	2x Mini-PCIE expansion slotsupport WIFI/3G/4G/MSTA/GPS
TV Tuner:	No
Watch Dog Timer:	---
Ports - front panel:	-----
Ports - rear panel:	Ports | USBx4 | HDMIx1 | VGAx0 | LANx2 | EARx1 | RS232x2 | MICx1 | Power DC 12V
Ports - left panel:	-----
Ports - right panel:	-----
Power:	Power DC 12V
Supported OS:	Windows
Installed OS:	Windows 10/11 test version(optional - licensed SYSTEM)
Dimensions:	578.8 x 350.8 x 52 mm
Weight:	7.6kg
Expansion:	---
Fanless:	Yes
Humidity:	5% - 95% Non-Condensing
Temp:	-10 °C to 60 °C
Storage Temp:	-20 °C to 70 °C
IP Norm:	65 front
IP Level (back panel):	-----
IP Level (front panel):	IP65
Dual display:	---
Response time touch-panel (ms):	8 ms
Contrast Ratio:	1200:1

Brightness:	300 NIT
Viewing Angle:	89°/89°/89°/89°(R/L/U/D)
Backlight MTBF:	---
Color Resolution:	---
Surface hardness (display):	---
Touch Life(contacts):	---
Housing material:	---
Mounting VESA:	100 x 100 mm | 75 x 75 mm
Folding Bracket (for office type working):	-----
Power Consumption:	Power consumption ≤ 60W
Others:	WiFi (standard)
Anti-vibration:	5-500Hz,0.026G^2/Hz,2.16Grms,X,Y,Z1 hour per axis
Anti-shock:	----
RFID scanner (reader):	---
Barcode reader:	---

3 222,11 zł
net price: 2 619,60 zł

BiBox 238-I58

CERTIFICATES

SPECIFICATION

RESISTANCE

WIRELESS COMMUNICATION

APPLICATION

ACCESSORIES AND AVAILABLE VERSIONS

In today's demanding industrial environment, not only performance is crucial, but above all, equipment reliability and durability. Modern control and monitoring systems must guarantee continuous operation, even in the most unfavorable conditions. The BiBox 238-I58 Panel PC is a rugged, multifunctional command center. Designed to operate reliably in the harshest industrial environments: extreme temperatures, humidity, dust, and water. This ensures maximum performance and operational stability regardless of the environment, becoming the foundation of any operation requiring top-of-the-line equipment.

Meeting rigorous safety and quality standards is an absolute priority in the industrial environment. The BiBox 238-I58 panel computer proudly holds the key CE, FCC, and RoHS certifications, providing a global guarantee of its compliance. CE confirms safety for use within the European Economic Area (EEA); FCC ensures that the device does not interfere with other electronic systems; and RoHS guarantees that it is free from harmful substances, supporting ecology and health. Obtaining these certifications proves that the manufacturer has met all necessary legal and technical requirements, ensuring that the product is not only efficient and reliable, but also completely safe.

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SPECIFICATION

BiBox 238-I58 v.3

Certifications	CE | FCC | RoHS
Network	1×Realtek RTL 8111E Gigabit Ethernet controller
Processor	Intel core i5-8250U Fanless
Graphics	CPU Integrated graphics HD Graphics and support 1080p HD photo quality
Operating system	Windows 10/11 test version (optional - licensed SYSTEM)
Memory	8GB RAM + 256GB SSD
Display	23.8" (1920x1080)
Touch screen	Capacitive
Viewangle	89°/89°/89°/89° (R/L/U/D)
Protection	IP65 (front panel)
Communication	WiFi (standard) | BT 2x Mini-PCIE expansion slot support WIFI/3G/4G/MSTA/GPS
Connectors	USBx4 | HDMIx1 | VGAx0 | LANx2 EARx1 | RS232x2 | MICx1 | DC12V

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

Modern manufacturing processes require computing units that are both powerful and masterfully energy-efficient. The ability to quickly process data at critical moments is key to maintaining operational continuity. The heart of the entire BiBox 238-I58 panel computer system is the powerful and energy-efficient Intel Core i5-8250U processor, designed with industrial reliability in

mind. Equipped with four cores and eight threads, it guarantees high multitasking performance, eliminating the risk of slowdowns even under intense workloads. Furthermore, the processor's large cache allows for rapid access to frequently used data, ensuring immediate response and smooth operation of even the most demanding industrial applications.
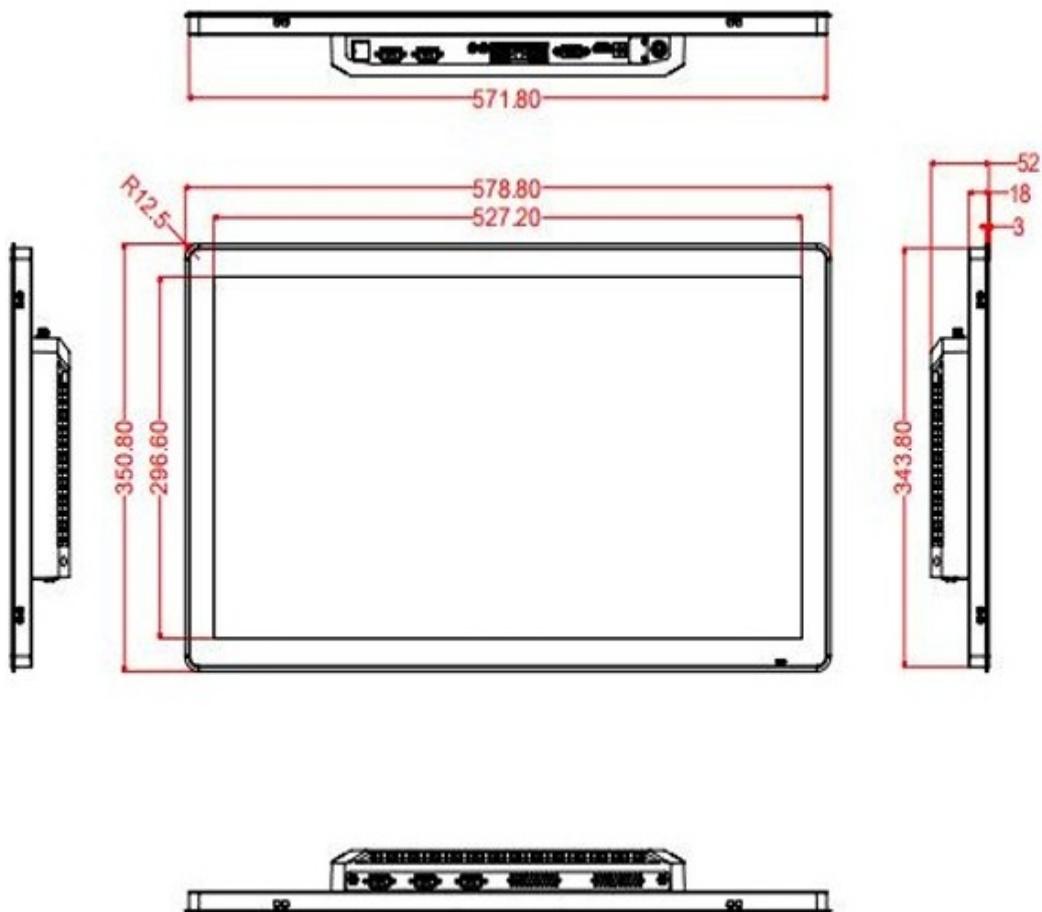
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Dimensions

When every inch of space counts and installation requires precision, housing ergonomics are crucial. The BiBox 236-I58 panel computer is synonymous with optimal space utilization, combining processing power with a well-thought-out design. This panel computer boasts compact dimensions of just 578.80 x 350.80 x 52 mm. Its slim housing was specifically designed to fit perfectly into control cabinets and confined industrial spaces, minimizing installation space requirements. The device is shipped in convenient boxes, each containing two panel PCs. The total gross weight of one such package is approximately 17.6 kg, simplifying logistics and transport. Included accessories for these two devices include the necessary power adapters and Wi-Fi antennas, enabling immediate system deployment.

Dimensions	578.8 x 350.8 x 52 mm

571.80

578.80
527.20
R12.5
350.80
296.60
343.80
52
18
3

up…

Capacitive screen

In an industrial environment, every design detail matters – not only for aesthetics, but above all to increase the durability and thermal efficiency of the device. 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 mechanical damage, crucial in harsh operating conditions. Furthermore, in addition to its aesthetic appeal, this metal dissipates heat more efficiently, which is essential for processor stability, while maintaining the device's slim profile without compromising structural strength.

Aluminium Bezel Style

ALUMINIUM BEZEL STYLE

The Aluminum Bezel Style frames the screen with aluminum, giving the device a premium look and enhancing durability. Being more durable and rigid than plastic, aluminum provides better protection against damage and dissipates heat more efficiently, maintaining a slim profile.

*At the customer's request, it is possible to order the BiBox 238-I58 device in the Aluminum Bezel Style version. Click on the configurator at the top of the page to go to the product settings.

Modern panels must provide excellent readability in any workspace, especially outdoors. The BiBox 238-I58 is a durable computer panel designed for efficient outdoor operation. Its screen boasts an optimal brightness of 300 nits, which is crucial for excellent readability in shaded areas or in moderate

sunlight. This optimization makes operating and monitoring data comfortable and hassle-free, minimizing operator eye fatigue regardless of lighting conditions.
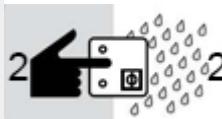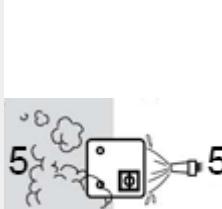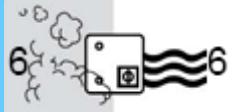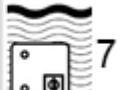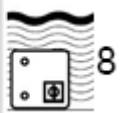
RESISTANCE

IP65 - FRONT

In industrial environments, where dust and moisture are common, absolute tightness of the device's enclosure is crucial. The International Protection (IP) standard is a universal measure of this resistance, guaranteeing reliability in the harshest conditions. The IP65 standard means that the device enclosure provides complete protection against dust ingress (number '6'). It is also resistant to water jets from any direction (number '5'). This makes it an ideal solution for applications in harsh environments where equipment is

constantly exposed to external factors, and operators can safely clean with water jets. Note that this standard protects against water jets, but not against immersion in water.

Firts digit		Protection level	Second digit
No special protection	0 ▫ 0	No special protection	
Protection from solid objects greater than 50mm in diameter	1 ✋ 1	Protection from dripping water	
Protection from object not greater than 12mm in diameter	2 👉 2	Protection from vertically dripping water (tilted up to 15°)	
Protection from object not greater than 2,5mm in diameter	3 🪛 3	Protection from sprayed water (tilted up to 60°)	
Protection from object not greater than 1mm in diameter	4 ⊙ 4	Protection from splashed water	
Complete protection against contact, Protection against dust deposit	5 ☁ 5	Protection from water projected from a nozzle	

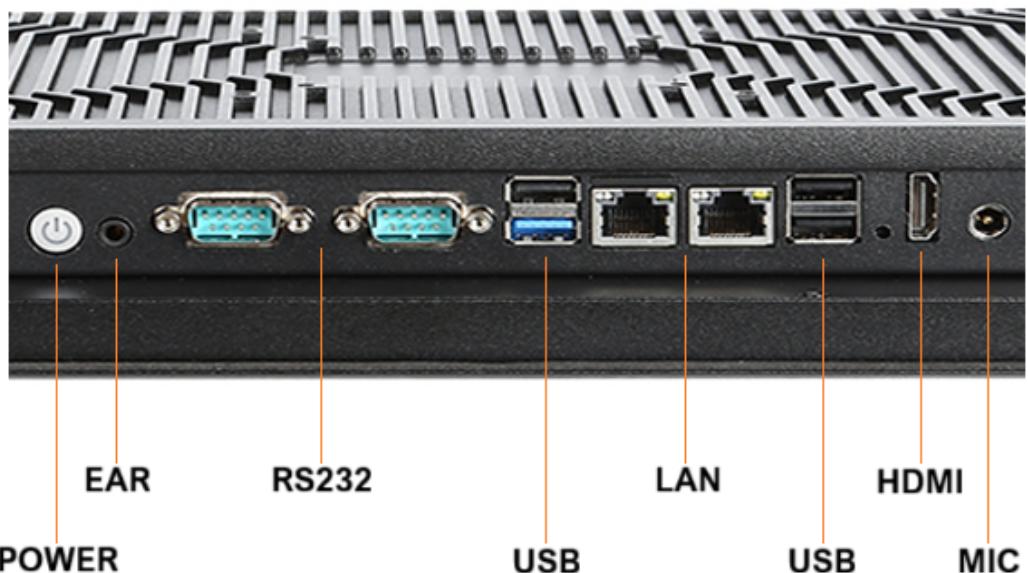| Firts digit	Protection level	Second digit
Complete protectionm against contact, protection from infiltration of dust	6	Protection against heavy seas, or powerful jets of water
	7	Protection against immersion
	8	Protection against complete, continuous submersion in water

Extreme temperatures

Reliability in extreme conditions is essential. The BiBox 238-I58 panel PC is designed to operate in the harshest environments. Its rugged construction allows for stable operation across a wide temperature range: from -10°C to 60°C, as well as high relative humidity up to 95% (non-condensing). This thermal durability also extends to safe storage at temperatures ranging from -20°C to 70°C, ensuring complete operational and logistical flexibility.

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

COMMUNICATIONS AND CONNECTIONS

EAR   RS232   LAN   HDMI

POWER   USB   USB   MIC

Communication

The evolution of industrial technologies requires CPUs to be as flexible as possible and open to future modifications. The ability to quickly expand functionality is invaluable in dynamically evolving systems. This device features two Mini-PCIe expansion slots, providing a versatile and easy way to add advanced capabilities. This option allows for the immediate installation of modules such as a Wi-Fi card for wireless connections, a 3G/4G module for reliable field communications, or an mSATA drive for significantly increased storage capacity. Thanks to this well-thought-out architecture, the BiBox can be easily configured and optimized for the most specific and demanding tasks.

Ports

Designed for demanding applications, the BiBox 238-I58 panel PC offers a

wide range of connections for maximum functionality in industrial environments, ensuring complete integration. Connectivity for peripherals and storage devices includes four high-speed USB ports, while an HDMI digital video output is available for image display. Two LAN ports are crucial for communication within industrial networks, guaranteeing stable and redundant Ethernet network communication. Furthermore, two RS-232 serial ports are crucial for integration with legacy automation systems and measurement devices. The device also features full audio support, with a dedicated microphone input (MICx1) and headphone output (EARx1), useful for voice monitoring and alarm systems.

APPLICATION

Trade and Services

Designed for demanding applications, the BiBox 238-I58 panel PC offers a wide range of connections for maximum functionality in an industrial environment, ensuring complete integration. Connectivity for peripherals and storage devices includes four high-speed USB ports, while an HDMI digital video output is available for image display. Two LAN ports are crucial for communication within industrial networks, guaranteeing stable and redundant Gigabit Ethernet network communication. Furthermore, two RS-232 serial ports are crucial for integration with legacy automation systems and measurement devices. The device also features full audio support, with a dedicated microphone input (MICx1) and headphone output (EARx1). The panel can be powered by 12V DC, with an optional 9-36V DC power supply.

Panel PCs are synonymous with reliability in the harshest environments. Their reinforced enclosures, certified to the IP65 standard, provide complete resistance to dust and powerful water jets. This makes devices like the BiBox 238-I58 the ideal choice for applications where traditional hardware would quickly deteriorate – from construction sites to logistics centers to busy production lines. This durability allows you to rely on your equipment without fear of damage.

Warehouse

Optimizing and maintaining operational stability in logistics requires equipment that can uncompromisingly withstand the rigors of warehousing

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

ACCESSORIES AND AVAILABLE VERSIONS

The BiBox 238-I58, a durable panel PC designed for intensive use, is available in several versions tailored to various 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.

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

	v.1	v.2	v.3	v.4	v.5	v.6	v.7	v.8
Windows 11 PRO	—		—	—			—	
1000 NIT	—	—	—	—	—		—	

8GB + 128GB			—	—	—	—	—	—
8GB + 256GB	—	—					—	—
16GB + 512GB	—	—	—	—	—	—		
4G	—	—	—	—	—		—	—
WiFi 6	—	—	—	—	—		—	—