



BiBox 156-I58 v.1 - Durable 15.6 inch Full HD Panel Computer, Intel Core i5-8250U, 8/128GB, RS232, 2x LAN RJ45, IP65 Front - For Rail Transport, HMI Systems and Rolling Stock Control

Category:	Industrial Panel PC Computers
Manufacturer:	Mobilator
Supported OS:	Windows 11, Windows 10, linux
Installed OS:	None, (option - Windows 11 Pro licence)
Screen size:	15.6"
Resolution:	1920X1080
Aspect ratio:	16:9
Brightness:	250 nits
Touchscreen:	Capacitive (10-points)
CPU Support:	4x max. 3.4 GHz Turbo, 8 threads
Installed CPU:	Intel Core i5-8250U
Graphic Card:	CPU Integrated graphics card Intel HD graphics
Storage (HDD) Support:	SSD
Installed Storage (HDD):	265GB SSD 512GB (option) 1TB (option)
Memory Support:	DDR4
Installed Memory:	8GB RAM 16GB (option) 32GB (option)
IP Norm:	65 (front)
IP Level (front panel):	IP65
IP Level (back panel):	None

Temp:	-20°C to 70 °C
Storage Temp:	-10°C do 70°C
Humidity:	5% - 95% Non-Condensing
Anti-shock:	No
Anti-vibration:	5-500Hz,0.026G ² /Hz,2.16Grms,X,Y,Z1 hour per axis
Barcode reader:	No
RFID scanner (reader):	No
Others:	No
LAN:	2×Realtek RTL 8111H Gigabit Ethernet
Wireless LAN card:	WiFi (standard) - (option) WiFi 6 (option)
3G:	No, (option)
4G LTE:	No, (option)
Bluetooth:	No, (option)
GPS:	No
Ports - rear panel:	2xUSB 2.0 2xUSB 3.0 1xHDMI 1xVGA 2xLAN 1xEAR 1xMIC Power DC12V, 9-36V (option) 4xRS232 (option) 2xRS232 1xRS485 (option) [instead of 1xRS232] 1xRS422 (option) [instead of 1xRS232]
Ports - front panel:	No
Ports - left panel:	No
Ports - right panel:	No
Expansion:	No
Power:	External PowerSupply AC100-240VWorking voltage DC12V, 9-36V (option) Power consumption ≤60W
Power Consumption:	---
Watch Dog Timer:	Yes
Mounting VESA:	100 x 100 mm 75mm x 75mm
Folding Bracket (for office type working):	No, (opcja)
Chipset:	Intel 300 series (Sunrise Point-LP)
CD/DVD Drive:	No

Audio:	Realtek ALC662 High Definition Audio (HD)Line in Line out
TV Tuner:	No
Backlight MTBF:	No
Contrast Ratio:	1000:1
Dual display:	Nie
Viewing Angle:	85°/85°/85°/85°(L/R/U/D)
Touch Life(contacts):	---
Surface hardness (display):	7H
Color Resolution:	16.7M
Response time touch-panel (ms):	15 ms
Housing material:	Narrow Bezel Style, (option - Aluminum Bezel Style
Dimensions:	392.2 x 242.2 x 51.8 mm
Fanless:	No
Weight:	4.3kg

643,53 €
net price: 523,19 €

BiBox 156-I58



SPECIFICATION AND PARAMETERS

DISPLAY AND TOUCH

HOUSING

CONNECTORS AND COMMUNICATION

RESISTANCE AND PROTECTION

APPLICATION

AVAILABLE VERSIONS AND ACCESSORIES

The PC 156-I58 industrial panel is a multi-tasking device combining the functions of the touch screen and a PC. The construction is adapted to difficult conditions and is resistant to extremely low and high temperatures, high humidity, contact with water and high levels of dust. The characteristics of these panels are primarily operational stability in various conditions and high efficiency.

SPECIFICATION AND PARAMETERS

Performance	
Processor	Intel Core i5-8250U [4 cores, 8 threads, 1.6GHz/turbo 3.4GHz]
Graphics card	Integrated graphics Intel HD Graphics

Performance	
Operating systemy	Support Windows 11 Windows 11 Pro *optional
RAM	8GB DDR4 16GB *optional 32GB *optional
Drive	128GB SSD 256GB SSD *optional 512GB *optional 1TB *optional
Display	
Screen	15.6", 1920x1080
Touch screen	Capacitive (10-points)
Brightness	250cd/m ² , 1000cd/m ² *optional
Screen ratio	16:9
View angle	89/89/89/89(R/L/U/D)
Interfaces	
Communication	WiFi (standard) *optional WiFi 6 *optional Bluetooth *optional 4G *optional 2xMini-PCIe expansion slot

Interfaces	
Connectors	2xUSB 3.0 2xUSB 2.0 1xHDMI 2xLAN 1xEAR 1xMIC 4xCOM *optional DC 12V, 9-36V *optional 2xRS232 1xRS485 *optional (instead of 1xRS232) 1xRS422 *optional (instead of 1xRS232)
Other	
Dimensions	392.2 x 243.3 x 51.8 mm
Weight	4.3 kg
Casing material	Metal [Narrow Bezel Style] Aluminium [Aluminium Bezel Style] *optional

* Optional equipment, available only in specific versions of the device or as customer's request



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

The heart of the BiBox 156-I58 is the Intel Core i5-8250U processor, which is both high-performance and energy-saving. Processing multiple tasks simultaneously is facilitated by four processor cores working together. Given the current load, the shared cache hierarchy (with multiple levels) dynamically allocates resources to each core. Hyper-Threading technology allows one core to support two threads, increasing overall performance. This shortens memory access. Integrated Intel UHD Graphics in the processor allows you to display images in 1080p, up to 4K resolution on various interfaces such as HDMI or DisplayPort.

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DISPLAY AND TOUCH



Capacitive screen



The device uses capacitive screen technology, which does not require physical pressure on the screen surface. Instead, it detects a change in the electrostatic field caused by a touch of a finger. Thanks

to this solution, panel operation becomes very precise and smooth, allowing you to respond to even the softest finger swings. This technology allows interaction with devices in a natural and intuitive way, increasing user comfort even in difficult industrial conditions where precision and durability are extremely important.

250-nit screen



The BiBox 156-I58 panel is equipped with a screen with a brightness of 250 nits, which ensures high readability both in low light conditions and in outdoor environments. The design of the display allows for effective operation. As a result, the user uses the device with comfort and without losing the readability of the displayed information.

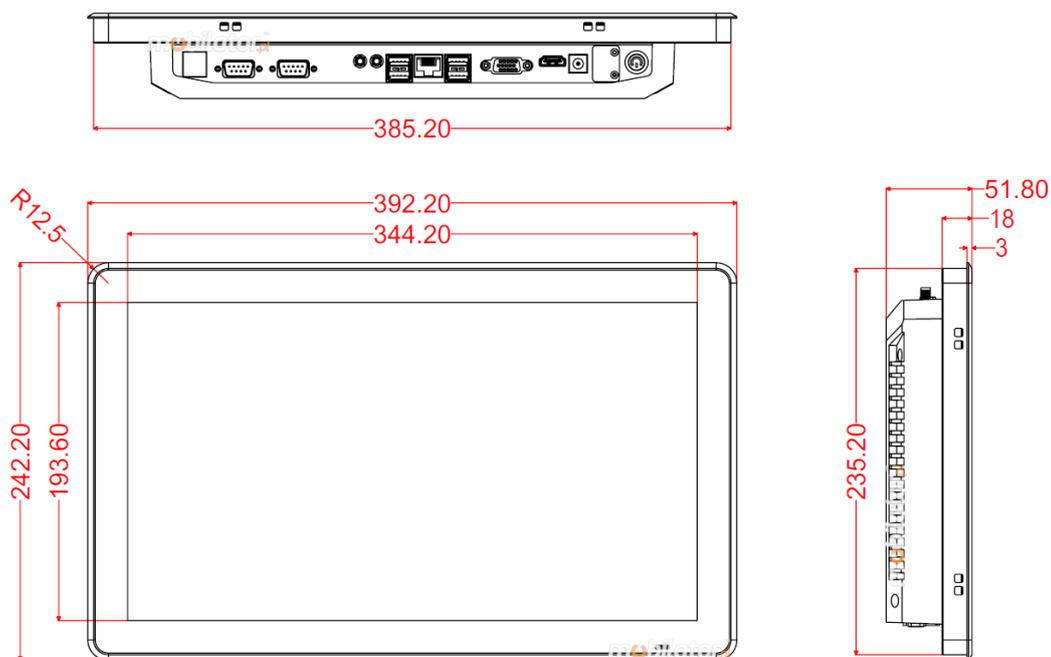
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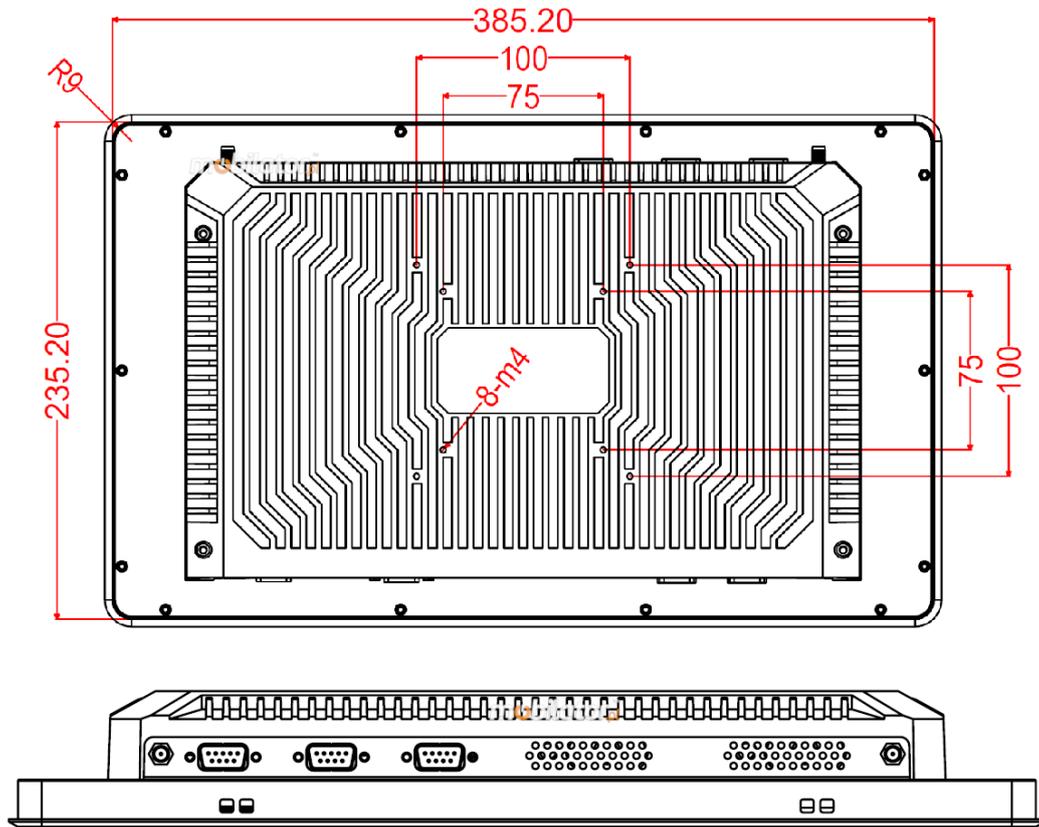
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HOUSING

Dimensions

The compact, flat BiBox 156-I58 PC panel housing was created to perfectly match control cabinets and small spaces in the industry. Its dimensions are 392.2 mm wide, 242.2 mm high and 51.8 mm deep.





Dimensions	392.2 x 242.2 x 51.8 mm
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Narrow Bezel Style



The Narrow Bezel Style presented in the BiBox 156-I58 panel construction is a clearly narrow metal frame surrounding the screen. This housing gives the panel a professional look, emphasizing modern design and solidity while maintaining a light structure. It perfectly protects the screen against mechanical damage and efficiently dissipates heat, which has a positive effect on the life of components. This style is often used in PC panels for industrial applications and modern commercial interiors, emphasizing the prestige of the device and ensuring excellent working conditions even in the multi-screen configurations.

Aluminum Bezel Style (optional)



The Aluminum Bezel Style visible in the photo is distinguished by minimalist narrow, slim, precisely made frame surrounding the screen, manufactured of durable aluminum. This housing guarantees the highest level of durability, resistance to mechanical damage and not only high stiffness, but also ensures effective heat resistance, which is crucial for the durability and stability of the device. This solution not only offers a large display area, combining elegance with modern design, but also ensures durability and scratch resistance.

* At the customer's request, it is possible to order the BiBox 156-I58 device in the Aluminium Bezel Style version. To select this finishing material, use the configurator located at the top of this page.





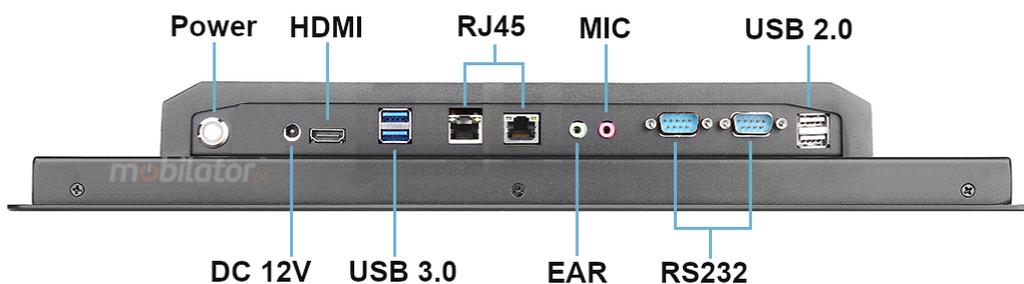
Apart from the recessed mounting type, the panel can be mounted on a standard VESA bracket.

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CONNECTORS AND COMMUNICATION

Connectors and ports



This device is equipped with four USB ports, two LAN ports, one HDMI input. In addition, the panel has audio connectors, including one MIC input and an EAR headphone input. We have two RS232 ports for industrial communication.

Communication

The device is equipped with two universal Mini-PCIe expansion socket, which enables the integration of additional functional modules. A WiFi card for wireless network access, a 3G/4G module for cellular connectivity, or an mSATA disk for storage expansion can be installed in this port. With this option, it is possible to individually adapt the equipment to specific user requirements and specific industrial applications.

RESISTANCE AND PROTECTION



Full leakproofness of the front of the panel ensures that no dust enters the device, which is confirmed by the degree of protection specified as IP65 standard. The equipment is protected from dust, so it can operate without interruption even in dusty environments. Additionally, the panel is resistant to water in the form of splashing streams, without causing any adverse effects. Water directed to the front of the built-up panel will not disturb the proper functioning of the equipment, which allows it to be used in difficult environmental conditions.

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

Extreme temperatures

Operation temperature ~ -20°C – 70°C

Storage temperature ~ -30°C – 80°C



The BiBox 156-I58 device has been designed to operate in demanding environmental conditions. It is characterized by the ability to operate in a wide temperature range from -20°C to 70°C and high resistance to relative humidity up to 95%, in the absence of condensation. Additionally, the equipment can be safely stored at extreme temperatures, from -30°C to 80°C, ensuring reliability in various operating conditions.

Operation temp.	-20°C do 70°C
Storage temp.	-20°C do 80°C
Humidity	5% to 95%

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APPLICATION

Trade and services

The PC 156-I58 panel is widely used in the commercial sector, where it serves as a central sales control system, displaying product information and presenting advertisements on monitors. The device is compliant with the VESA mounting standard, which allows for easy installation in various places, such as cash register stations, production halls and the interiors of delivery vehicles. Thanks to these features, the BiBox 156-I58 panel is a universal and versatile platform, adapted to the requirements of modern commercial network.



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Industry and Construction

Panel computers for specialized purposes are characterized by high durability and reliability, thanks to which they can be used in environments with strict operating conditions. Their design has been carefully designed to provide full protection against dust and

resistance to water in the form of strong streams, which is confirmed by the IP65 certificate. This type of equipment, works perfectly in sectors such as construction, logistics and production lines, where conventional devices often fail quickly. Such durability guarantees stable and failure-free operation even in extreme conditions.



Warehouse and management

An industrial-grade panel computer equipped with RS232 interfaces enables effective management and central control of warehouse equipment, which increases the efficiency of operations. The solid housing design is designed to operate in demanding industrial conditions. Thanks to its resistance to dust and pollution, the device guarantees stable and reliable operation even in environments with a high level of dirt.



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ACCESSOIRES AND AVAILABLE VERSIONS

The BiBox 156-I58 industrial panel computer is available in various variants that can be adapted to individual user requirements. The number of the selected hardware configuration is directed to a detailed description of the technical parameters contained in the table below. Additionally, there is an option to prepare a non-standard configuration not included in the current offer, at the customer's special request.



More pictures of the device available in the ["Gallery"](#) tab.

	v.1	v.2	v.3	v.4	v.5	v.6	v.7	v.8
Bluetooth	—	+	+	+	+	—	+	+
WiFi (standard)	—	+	+	+	+	—	+	+
Windows 11 Pro	—	+	—	—	+	+	+	+

1000nits

- - - + - + - +

WiFi 6

- - - - - + - -

4G

- - - - - + - -