



10.1"



Waterproof Industrial PC Panel v.1

Category:	Industrial Panel PC Computers
Manufacturer:	CCETouch
Screen size:	15.6"
Resolution:	1366 x 768 (HD)
Aspect ratio:	16:9
Touchscreen:	Capacitive
Chipset:	Rockchip RK3288
CPU Support:	ARM Cortex A17 Quad Core
Installed CPU:	ARM Cortex A17 Quad Core 4x1.80 GHz
Memory Support:	up to 4GB DDR3 Dual Channel
Installed Memory:	2GB
Graphic Card:	ARM Mali-T764 GPU
Storage (HDD) Support:	8GB/16GB eMMC High Speed
Installed Storage (HDD):	8GB eMMC
CD/DVD Drive:	-----
LAN:	1x 10/100/1000 Mb/s Ethernet
Wireless LAN card:	Yes, Dual Band, 802.11 a,b,g,n,ac
Bluetooth:	Yes v. 4.0.

3G:	No
GPS:	No
TV Tuner:	-----
Watch Dog Timer:	Support software watch dog
Ports - front panel:	-----
Ports - rear panel:	1x HDMI1x VGA2x RJ452x USB 2.02x RS232AudioDC 12V
Ports - left panel:	-----
Ports - right panel:	-----
Power:	12V DC-in
Supported OS:	Android
Installed OS:	Android 5.1 Lollipop
Dimensions:	387mm x 237mm x 44.6mm
Weight:	7.0 kg
Expansion:	-----
Fanless:	No
Humidity:	20% - 80%
Temp:	0°C to 60°C
Storage Temp:	-20°C to 65°C
IP Level (back panel):	-----
Dual display:	No
Response time touch-panel (ms):	10
Contrast Ratio:	500:1
Brightness:	350 cd/m2
Viewing Angle:	-----
Backlight MTBF:	LED
Color Resolution:	16.2M(6-bit+FRC)
Surface hardness (display):	-----
Touch Life(contacts):	-----

Mounting VESA:	Yes, VESA 100
Folding Bracket (for office type working):	-----
Power Consumption:	15W
Others:	Housing color: Black
Anti-vibration:	-----
Anti-shock:	-----
RFID scanner (reader):	-----
Barcode reader:	-----

Product from the Archive - production finished

MTouch

Panel PC LiBOX 10

10" INDUSTRIAL OPERATOR PANEL



Specification and parameters

Display and touch

Resistance and protection

Communication and connectors

Application

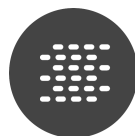
Available versions and accessories

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 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 A17 processor supported by 2GB of RAM improves the device's performance.



Bright Screen

The display with 350cd/ m² 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 resistive screen allows you to freely use the touch screen of the PC panel in gloves or with a stylus.

Specifications and parameters

Performance	
Processor	ARM Cortex A17 Quad Core (4x 1.8 GHz)
Graphics card	ARM Mali-T764 GPU
Operating system	Android 5.1
RAM	2GB (option 4GB)
Drive	8GB eMMC (option 16 GB eMMC)
Display	
Screen	15.6" (1366x768) Native
Touch screen	Capacitive
Brightness	LED panel: 400 nits; Display: 350 nits

Display	
Contrast	500:1
Response time	6/2(Typ.)(Tr/Td)ms
Hardness	—
Interfaces	
Communication	Wi-Fi / BT
Connectors	HDMI / 1x I2C / 1x RJ45 / 4x USB 2.0 / 1x USB OTG 3x RS232 (TTL) / 1x GPIO / DC 12V
Memory card	TF Card Slot (max. 64GB)
SIM card	1x slim slot
Other	
Protection	IP65 (front panel)
Dimensions	387mm x 237mm x 44.60mm
Weight	7.0kg

* Optional equipment, available only in specific versions of the device.



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

The dust-proof industrial PC panel uses an efficient and energy-saving Intel Atom D2550 processor. In its interior there are two 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" tab.

Display and touch

Amplified, waterproof industrial computer LiBOX 10 has a water-resistant and scratch-proof 10.1" LED screen 1024x600 resolution offers good image quality, and high brightness in the 350 cd/m² range gives better color saturation and contrast and allows significantly improved visibility even in the case of incident light. The display of the resistive type provides the user with a clear image and ease of use by touch.

RESISTIVE SCREEN

In the resistive screen, the sensitive surface is made of two plastic plates. The plate on the surface is made of thin and scratch-resistant plastic. It is also covered with a thin layer of conductive materials placed on the bottom of the screen. Under the top glass (i.e. below the conductive material) is a second plastic plate. Both tiles have no contact with each other until the user of the device has pressed the screen with a finger or stylus. Then there is contact between slightly separated screens. As a result of their contact, a short-circuit is created, which by measuring the vertical and horizontal resistance is converted into data indicating the processor's contact point.



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.

IP6X (front panel)	Protection against access to dangerous parts with wire. Dustproof protection.
IPX5 (front panel)	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.



EXTREME TEMPERATURES

PanelPC LiBOX 10 is adapted for continuous operation in both very low and high temperatures in the range from -20 ° C to 60 ° C. If the device is switched off, it can already handle temperatures between -20 ° C and 60 ° 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.	0°C to 60°C
Storage temp.	-20°C to 65°C
Humidity	20% - 80%

Communication

Optional equipment

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 LiBOX 10 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/ac
Frequencies	2.4GHz 5GHz

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.

Available versions and accessories

Industrial industrial computer LiBOX 10 is offered in several versions adapted to different needs. By clicking on the number of the hardware configuration you will be redirected to the product with the parameters given in the table below. In addition, it is possible to create a configuration that is currently unavailable on the customer's request.

	v.1	v.2	v.3	v.4
2GB RAM		—	—	—
4GB RAM	—			
32GB SSD		—	—	—
64GB SSD	—		—	—
128GB SSD	—	—		—
500GB HDD	—	—	—	
Wi-Fi	—			