



Small efficient fanless industrial mini computer with passive cooling MiniPC yBOX-X31-i7 4500U v.4

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| <b>Category:</b>                | MiniPC Industry                                  |
| <b>Manufacturer:</b>            | Mobikator                                        |
| <b>Others:</b>                  | Color Black                                      |
| <b>Chipset:</b>                 | Intel Chipset                                    |
| <b>CPU Support:</b>             | Intel Core i7                                    |
| <b>Installed CPU:</b>           | Intel Core i7-4500U (2x 1.80 GHz) SmartCache 4MB |
| <b>Memory Support:</b>          | DDR3L SO-DIMM (max.8GB)                          |
| <b>Installed Memory:</b>        | <b>8GB</b>                                       |
| <b>Graphic Card:</b>            | Intel HD Graphics 4400                           |
| <b>Storage (HDD) Support:</b>   | SSD   HDD                                        |
| <b>Installed Storage (HDD):</b> | <b>240GB SSD</b>                                 |
| <b>CD/DVD Drive:</b>            | -----                                            |
| <b>LAN:</b>                     | Realtek RTL8111E 10/100/1000 Mb/s                |
| <b>Wireless LAN card:</b>       | Option (Intel 6205 Dual-Band 802.11 a/b/g/n)     |
| <b>Bluetooth:</b>               | -----                                            |

|                      |                                                               |
|----------------------|---------------------------------------------------------------|
| 3G:                  | -----                                                         |
| TV Tuner:            | -----                                                         |
| Watch Dog Timer:     | Yes                                                           |
| Front Panel (ports): | Power ON1x Mic1x Audio1x USB 3.03x USB 2.0                    |
| Rear Panel (ports):  | WiFi anetnnas 2.4GHz/5GHz (option)1x LAN1x VGA1xHDMI1x DC 12V |
| Power:               | 12V                                                           |
| Supported OS:        | Windows: 7/8//10   Linux                                      |
| Installed OS:        | -----                                                         |
| Dimensions:          | 133mm x 125mm x 40mm                                          |
| Weight:              | 1350g                                                         |
| Expansion:           | -----                                                         |
| Fanless:             | Yes                                                           |
| Humidity:            | 10% ~ 90%                                                     |
| Temp:                | 0°C — 70°C                                                    |
| IP Norm:             | -----                                                         |
| Storage temperature: | -20°C — 80°C                                                  |

Product from the Archive - production finished



## Mini PC FANLESS X31



### TECHNICAL SPECIFICATION

### RESISTANCE AND DURABILITY

### CONNECTIVITY AND COMMUNICATION

### DEVICE APPLICATION

### AVAILABLE VERSIONS

Small dimensions industrial computers excel in environments where dust,

dirt and moisture predominate. They are ideal for applications requiring quiet operation. Small and reliable MiniPC use heat-pipe technology and aluminum fins for passive cooling. The robust mini Industrial Computer yBOX-X31 is a device designed for all industrial and non-continuous applications requiring continuous operation - 24 hours, 7 days a week.



#### Small dimensions

The compact housing means that the Mini PC will fit wherever you need it and is easy to carry.



#### Lightweight design

The computer's weight does not exceed 1.5 kg, so it can be conveniently carried in a bag or backpack.



#### Efficient components

The Intel Core i7-4500U dual-core CPU provides improved device performance.



### Wireless network

The mini PC can be connected to nearby wireless networks by equipping it with an optional Wi-Fi module.



### Quick start

A modern SSD drive will increase the speed of application programs and ensure quiet computer operation.



### Passive cooling

The use of passive cooling in the Mini PC ensures silent operation and slows dust deposition.

## SPECIFICATION

### Mini-PC yBOX X31

Processor

Intel Core i7-4500U (2x 1.80GHz) SmartCache 4MB

| Mini-PC yBOX X31 |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| Operation system | Support: Windows 7/8/10<br>Linux                                                      |
| RAM              | 8GB DDR3L SO-DIMM                                                                     |
| Drive            | SSD: 240GB                                                                            |
| Graphic card     | Intel HD Graphics 4400                                                                |
| Connectivity     | WLAN: Intel 6205 Dual-Band   802.11 a/b/g/n<br>LAN: Realtek RTL8111E Gigabit Ethernet |
| Front panel      | Power ON   1x Mic   1x Audio   4x USB 3.0   2x USB 2.0                                |
| Rear panel       | WiFi antennas 2,4GHz & 5GHz<br>  1x LAN<br>1x VGA   1x HDMI   1x DC 12V               |
| Available colors | Black                                                                                 |
| Dimensions       | 133 x 125 x 40mm                                                                      |
| Weight           | 1.35 kg                                                                               |



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

Efficient processor



The industrial mini-computer yBOX-X31

uses an efficient and energy-saving Intel Core i7-4500U processor. Inside it there are two cooperating cores enabling more efficient processing of many tasks at the same time. The shared cache memory in which the multilevel hierarchy is used is dynamically allocated to each processor core depending on the load. This reduces the average access time to the main memory. The processor has implemented Hyper-Threading (HT) technology, which allows you to increase the efficiency in performing multiple tasks simultaneously.

Interfaces



## Dimensions



Thanks to the small dimensions of the MiniPC, the yBOX-X31 is versatile for use at home, in the office and in the industry, for example in the production hall. It's literally everywhere, and thanks to the VESA mount it can be mounted on the back of the monitor to optimize the job.

|            |                  |
|------------|------------------|
| Dimensions | 133 x 125 x 40mm |
| Weight     | 1350g            |

Passive cooling

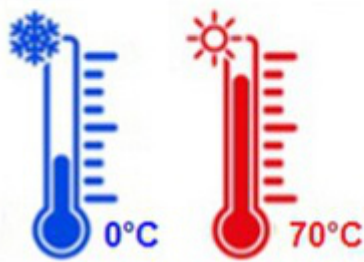
The industrial Mini PC uses a proven cooling system, based only on solid elements, mainly heat sinks. The system uses the phenomenon of metals passing thermal energy into the environment - there are no additional moving elements in the form of eg fans. This solution ensures noiseless operation, lower failure rate and greater protection against dust and other dirt while

reducing the amount of energy consumed.

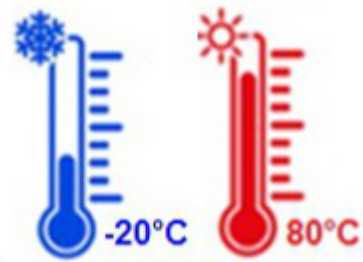
## RESISTANCE AND DURABILITY



Work temp.



Storage temp.



### Temperatures

yBOX-X31 is designed for continuous operation in both very low and high temperatures ranging from 0 ° C to 70 ° C. If the device is switched off, it can already handle temperatures in the range of -20 ° C to 80 ° C.

|                      |               |
|----------------------|---------------|
| <b>Work temp.</b>    | 0°C do 70°C   |
| <b>Storage temp.</b> | -20°C do 80°C |
| <b>Humidity</b>      | 10% do 90%    |

#### Mechanical damage

The passive cooling system used in the MiniPC yBOX-X31 combined with the non-disk SSD\* make this computer very resistant to various types of mechanical injuries. An additional advantage of industrial computers is a solid construction made of high quality aluminum and specially designed in such a way that in addition to high efficiency in heat dissipation, it can also resist any external damage.

## CONNECTIVITY AND COMMUNICATION

#### Wireless network (Option)

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. Industrial mini-PC yBOX-X31 has been equipped the standard of - 802.11n, which allows transfer of files at a dizzying speed of up to 300 Mb / s.

#### Wired LAN Network

The MiniPC yBOX-X31 has built-in Realtek network adapter that can work in a fast Gigabit Ethernet network.



## DEVICE APPLICATION

Trade and service

Mini PC is an ideal tool to support us in the implementation of many activities in the field of trade, small dimensions increase the possibility of its adaptation to activities such as issuing invoices or preparing documentation, which in turn allows us to convenient and optimal sales management. The VESA holder mounted to the housing provides many installation options, eg in stores (at the cash register, under the desktop, behind the LCD / LED monitor), in factory halls or in a delivery truck.

# VESA



## Warehouse and logistics

Thanks high performance an industrial computer can be used to connect multiple devices in a warehouse and make their management much easier. Its rugged casing and the fanless cooling system are ideal for harsh environments in such rooms. The solid construction guarantees long-lasting work, even in environments with high dustiness and dirt.



## Transport and motorization

A small industrial computer can be used in transport thanks to the ability to work on 12V power supply. Then the mini computer can be used in passenger cars, buses, trams, taxis, trains and even in airplanes. It allows you to inform the driver about the current state of the vehicle, transfer its current location to the management center, display information for passengers, etc. It performs well in vehicles where small dimensions are important.



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

## AVAILABLE VERSIONS

The industrial mini-computer yBOX-X31 is offered in several versions to suit 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.0 | v.1 | v.2 | v.3 | v.4 | v.5 |
|-----------|-----|-----|-----|-----|-----|-----|
| 4GB RAM   | —   |     |     |     | —   | —   |
| 8GB RAM   | —   | —   | —   | —   |     |     |
| 32GB SSD  | —   |     | —   | —   | —   | —   |
| 64GB SSD  | —   | —   |     | —   | —   | —   |
| 240GB SSD | —   | —   | —   | —   |     | —   |
| 500GB HDD | —   | —   | —   |     | —   | —   |
| 1TB HDD   | —   | —   | —   | —   | —   |     |
| WiFi      | —   | —   |     |     |     |     |