



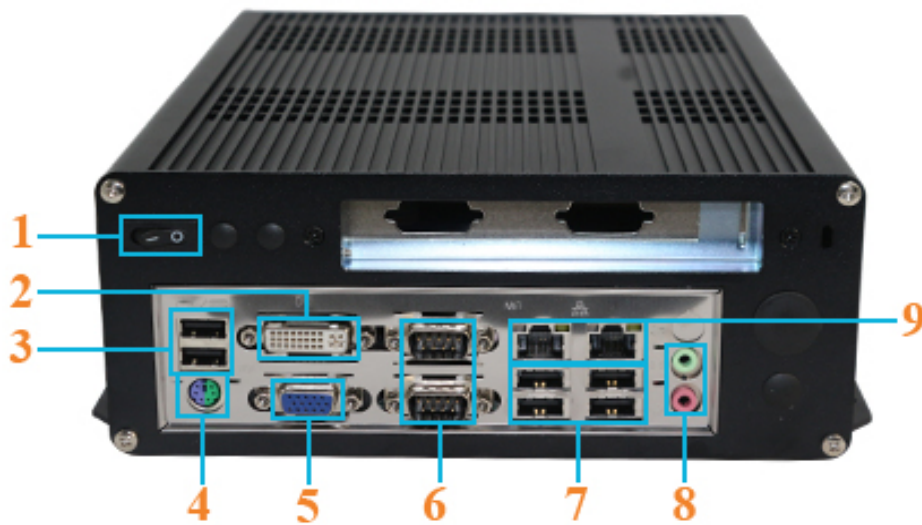
## Industrial MiniPC IBOX-i5M61-X8-RS422/485

mobikator

<b>Category:</b>	MiniPC Industry
<b>Manufacturer:</b>	Mobilator
<b>Supported OS:</b>	Microsoft Windows: XP/Vista/7 , Linux
<b>Installed OS:</b>	-----
<b>Chipset:</b>	Intel H61
<b>CPU Support:</b>	-----
<b>Installed CPU:</b>	Intel i5 3470 (4x3.2GHz)
<b>Graphic Card:</b>	Intel HD 4000
<b>Memory Support:</b>	4GB DDR3 (can up to 8GB)
<b>Installed Memory:</b>	4GB DDR3
<b>Storage (HDD) Support:</b>	-----
<b>Installed Storage (HDD):</b>	64 GB SSD
<b>IP Norm:</b>	-----
<b>Temp:</b>	-10 ~ 60
<b>Storage temperature:</b>	-20 - 70

<b>Humidity:</b>	0 ~ 95%
<b>Others:</b>	Colour Black, Case
<b>LAN:</b>	Intel RTL8105E 100M Lan
<b>Wireless LAN card:</b>	No (optional Yes)
<b>3G:</b>	-----
<b>Bluetooth:</b>	-----
<b>Rear Panel (ports):</b>	6x USB 2.0,1x Audio,2x RJ-45, DC-in Jack, 1xVGA,1x Mic,1x DVI, 2x COM(RS232)
<b>Front Panel (ports):</b>	2x USB 2.0, Audio/Mic, 3x COM(RS232), 1x COM(RS422/485)
<b>Expansion:</b>	WiFi
<b>Power:</b>	12V
<b>Watch Dog Timer:</b>	0 ~ 255 sec
<b>CD/DVD Drive:</b>	-----
<b>TV Tuner:</b>	-----
<b>Dimensions:</b>	211 x 254 x 85 mm
<b>Fanless:</b>	-----
<b>Weight:</b>	2,4 kg

**Product from the Archive - production finished**



## Industrial MiniPC

Industrial PCs are excellent in environments dominated by dust, dirt and moisture. They are ideal for applications that require quiet operation. Small and reliable MiniPC use heat-pipe technology and aluminum fans for passive cooling.

**IBOX-i5M61-X8-RS422/485** is a series of devices for industrial applications requiring continuous operation - 24 hours, 7 days a week.

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Housing dimension are **211 (W) x254 (L) x85 (H) mm**. Housing is made of high quality aluminum what ensures a very high resistance to mechanical damages. This model with weight of only **2.4 kg** is ready at any time for operation even in extreme conditions such as heat, cold, vibration.

Using the latest technology Digital Engine (industrial fanless MiniPC) is designed for continuous multitasking operating with low power consumption. An important advantage is the effective combination of small size with considerable opportunities through the use of Intel's processor family, Intel chipset and **DDR3** memory. Integrated **Intel HD 4000** video and audio **Realtek ALC662** allow you to play a wide range of applications and media files (video, audio) - in Full HD quality. Disks offer free space from **64GB SSD to 256GB SSD** (from **320GB to 1TB HDD**).



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Integrated card - **Intel RTL8105E 100M** (optional WiFi module) allow connection to the network. The computer is equipped with: two **LAN** ports, five **COM ports (RS232)**, one **COM port (RS422/485)**, eight **USB 2.0** ports, one **DVI** input, one **VGA** input, one way audio, one microphone input and connectors built into the motherboard: four **USB 2.0** ports, two **PowerOUT** outputs, one audio output, one **CPUFAN**, one **JVGA** connector, one **LVDS** connector.

**PCI** or **Peripheral Component Interconnect** bus is developed by INTEL in 1992. It has been designed for use adapters that require high-speed transmission. She had to replace the old standard ISA, which she did, because today most motherboards have a few PCI slots. Initially, the PCI card has been designed to supply 5 V, later also introduced 3.3V cards. The PCI 2.3 is valid only 3.3V voltage.

There are slots 32-bit (most commonly used) and 64-bit. 64-bit slots have an additional 32 contacts on each side (because they are longer than the 32-bit). Bit 32 has 62 pins on each side, it has two or four slots (depending on the operated voltage), so the terminal on a 60 or 58 on each side. The number of installing the card 32-bit 64-bit slot and vice versa. In the latter case, 64-bit card operates as a 32-bit version.



It is worth noting that all the PCI slots on the motherboard are connected to a data bus, so one of the cards is slower - it will slow down all the other cards.

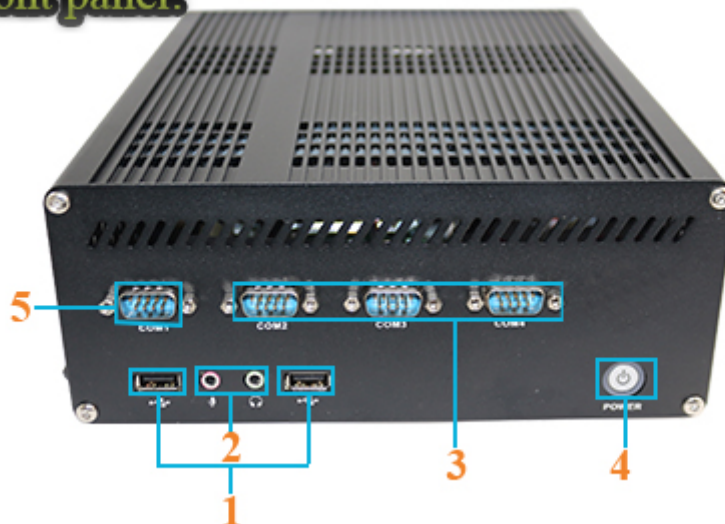
### LVDS Interface

This is a fast digital interface that is used for many applications requiring: a high resistance to interference electromagnetic, low energy consumption at high data rates. LVDS is used in various applications and industries, including commercial and military applications.

### Two independent network cards Intel RTL8111E

The computer can use two network cards for different purposes - it can be very practical - for example - when one card is responsible for the Internet connection, and the other keeps the connection of devices in the factory, warehouse, shop, supermarket and even in bank that should not have its own connection to the Internet.

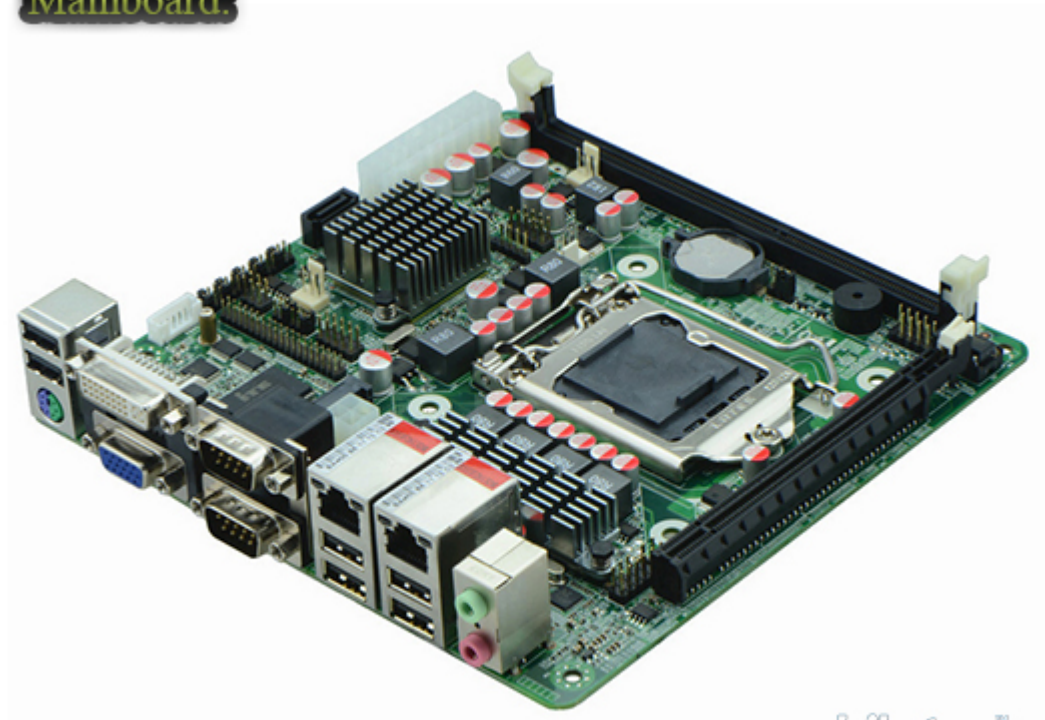
### Front panel:



- |               |                  |                      |
|---------------|------------------|----------------------|
| 1. 2x USB 2.0 | 3. 4x COM(RS232) | 5. 1x COM(RS422/485) |
| 2. Audio/Mic  | 4. Power ON/OFF  |                      |

### Rear panel:

## Mainboard:



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## Cooling

The industrial MiniPC IBOX-i5M61-X8-RS422/485 uses a special method of cooling. This cooling takes place mainly by means of housing having a very large surface (longitudinal lamells, ribs) - for heat dissipation.

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Industrial MiniPC Series IBOX-i5M61-X8-RS422/485 are based on high-performance two-core processors and high-quality components. Mini computers are locked in small industrial housing which perfectly discharge heat from the device interior. Wide choice of IBOX models can give possibility to configure, enabling optimal selection of mini computer to multimedia applications and industrial applications. The biggest advantages of these devices are: small size, performance and energy efficiency. An extra pair of brackets at the bottom of the enclosure increases the possibility of installation in all kinds of places and positions. Offered model mini PC has been selectively chosen and configured specifically to the requirements of Digital Signage systems, gaming machines, amusement machines, information kiosks and industrial automation systems.



### Dual Display



