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Industrial MiniPC IBOX-i5M61-X8

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

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

Product from the Archive - production finished

Industrial MiniPC

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

IBOX-i5M61-X8 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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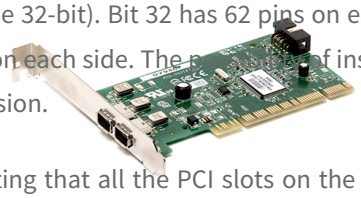
Integrated card - **Intel RTL8105E 100M** (optional WiFi module) allow connection to the network. The computer is equipped with: two **LAN** ports, six **COM ports (RS232)**, eight **USB 2.0** ports, one **DVI** input, one **VGA** input, one way audio, one microphone input and connectors built into the 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 possibility 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.

1. 2x USB 2.0
2. Audio/Mic
3. 4x COM(RS232)
4. Power ON/OFF

Mainboard:

Cooling

The industrial MiniPC IBOX-i5M61-X8 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 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 advantagesof 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

Areas of use of industrial MiniPC