



Industrial Fanless MiniPC IBOX-1037uA-RS422/485

Category:	MiniPC Industry
Manufacturer:	Mobilator
Supported OS:	Microsoft Windows: XP/Vista/7 , Linux
Installed OS:	-----
Chipset:	Intel NM70
CPU Support:	-----
Installed CPU:	Intel Celeron 1037u (2x1.8GHz)
Graphic Card:	Intel 2500
Memory Support:	2GB DDR3 (can up to 8GB)
Installed Memory:	2GB DDR3
Storage (HDD) Support:	-----
Installed Storage (HDD):	32 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 (optional Yes)
3G:	No (optional Yes)

Bluetooth:	-----
Rear Panel (ports):	4x USB 2.0,1x Audio,1x RJ-45, DC-in Jack, 1x LPT,1x Mic,4x COM(RS232), 2x COM(RS422/485),1x VGA
Front Panel (ports):	4x USB 2.0, Audio/Mic
Expansion:	WiFi
Power:	12V
Watch Dog Timer:	0 ~ 255 sec
CD/DVD Drive:	-----
TV Tuner:	-----
Dimensions:	234 x 204 x 65 mm
Fanless:	Yes
Weight:	2.4 kg

Product from the Archive - production finished



Industrial Fanless

Fanless 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-1037uA-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 **234 (W) x204 (L) x65 (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 2500** 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 **32GB 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: one **LAN** port, four **COM ports (RS232)** and two **COM ports (RS422/485)** - in this can be 6x COM(RS232), one **LPT** port, one **VGA** output, eight **USB 2.0** ports, 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 **HDMI** connector, one **SIM** connector, one **JVGA** connector, one **LVDS** connector, one **GPIO** connector.

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.

General-purpose input/output (GPIO)

This is a generic pin on an integrated circuit whose behavior, including whether it is an input or output pin, can be controlled by the user at run time. GPIO pins have no special purpose defined, and go unused by default. The idea is that sometimes the system integrator building a full system that uses the chip might find it useful to have a handful of additional digital control lines, and having these available from the chip can save the hassle of having to arrange additional circuitry to provide them.

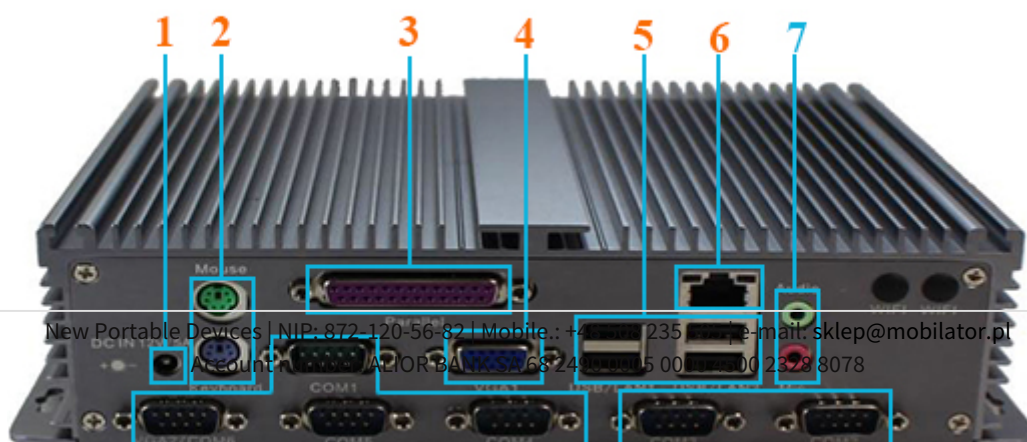
Front panel:



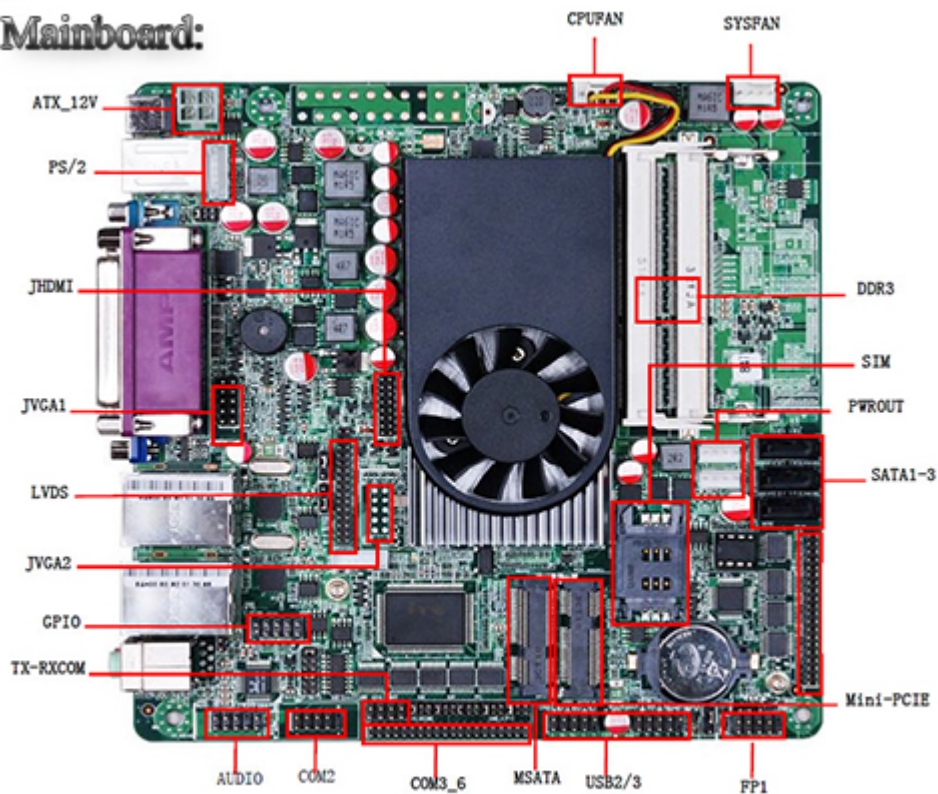
1. 4x USB 2.0

2. Power

Rear panel:



Mainboard:



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Cooling

The industrial fanless MiniPC IBOX-1037uA-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. Fan used inside the computer is designed to rapidly drain hot air from the CPU, allowing MiniPC to reach more efficiently and faster cooling.

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Trade

Small, fanless computer can find various of commercial applications such as computer system for sale, for display informations about the products on monitors or ads on the big screens. With the help of handles combined with the housing there are many mounting possibilities - such as: in shops (at the cash register, at the back of monitors for LCD / LED), in factories halls, in the cars which are used for distribute different kind of products, etc., will certainly find application in all kinds of networks trade.



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