



Industrial Fanless MiniPC IBOX-N2800A

Category:	MiniPC Industry
Manufacturer:	Mobilator
Supported OS:	Microsoft Windows: XP/Vista/7 , Linux
Installed OS:	-----
Chipset:	Intel NM10
CPU Support:	-----
Installed CPU:	Intel Atom Dual Core N2800 (2x1.86GHz)
Graphic Card:	Intel GMA3650
Memory Support:	2GB DDR3 (can up to 4GB)
Installed Memory:	2GB DDR3
Storage (HDD) Support:	-----
Installed Storage (HDD):	32 GB SSD
IP Norm:	-----
Temp:	-20 ~ 60
Storage temperature:	-20 - 70

Humidity:	0 ~ 95%
Others:	Colour Black, Case
LAN:	2x Intel RTL8111E 1000M Lan
Wireless LAN card:	-----
3G:	-----
Bluetooth:	-----
Rear Panel (ports):	2x USB 2.0, 1x Audio, 2x RJ-45, DC-in Jack, 1x HDMI, 1x Mic, 6x COM(RS232), 1x VGA, 2x WiFi
Front Panel (ports):	4x USB 2.0, 1x COM
Expansion:	WiFi
Power:	12V
Watch Dog Timer:	0 ~ 255 sec
CD/DVD Drive:	-----
TV Tuner:	-----
Dimensions:	234 x 204 x 54 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 fins for passive cooling.

IBOX-N2800A is a series of devices for industrial applications requiring continuous operation - 24 hours, 7 days a week.

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Housing dimensions are **234 (W) x204 (L) x54 (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 GMA3650** 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 - two **Intel 1000M Lan RTL8111E** (optional WiFi module) allows connection to the network. The computer is equipped with: two LAN ports, six **COM ports (RS232)**, one **VGA** output, six **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 **GPIO** connector.

General-purpose input/output (GPIO)

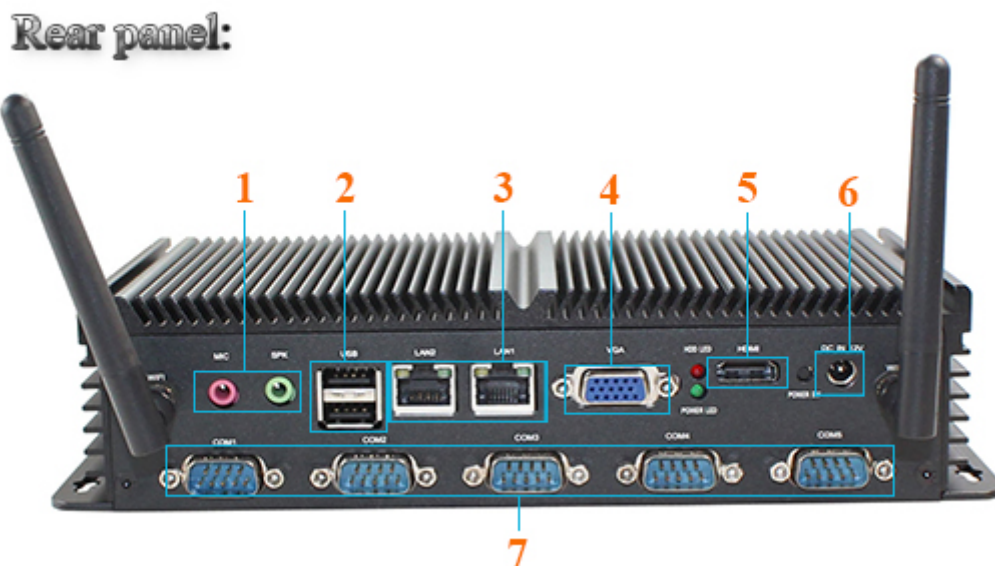
This is a generic pin on an integrated circuit whose behavior, including whether it is an input or output pin, can be controlled by the user at run time. GPIO pins have no special purpose defined, and go unused by default. The idea is that sometimes the system integrator building a full system that uses 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..

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. 4x USB 2.0
2. COM(RS232)



1. Audio/Mic

2. 2x USB 2.0

Meinboard:



Cooling

The industrial fanless MiniPC IBOX-N2800A 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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Industrial MiniPC Series IBOX-N2800A 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



Areas of use of industrial MiniPC

Digital Engine



