



Efficient Industrial Computer with a dedicated card graphical Nvidia GT1030 and M.2 SSD disk - MiniPC with BOX PSO-i7 v .4.1

Category:	MiniPC Industry
Manufacturer:	Mobilator
Others:	Color Black
Chipset:	Intel H110
CPU Support:	Intel Core i5 / i7 - Socket LGA1151
Installed CPU:	Intel Core i7 7700 (4x 3.60GHz) 8MB SmartCache
Memory Support:	DDR4 SO-DIMM (max. 32GB)
Installed Memory:	8GB
Graphic Card:	Intel HD Graphics 630 Nvidia GeForce GT1030
Storage (HDD) Support:	SSD / HDDmSATA / SATA / M.2
Installed Storage (HDD):	500GB HDD256GB SSD M.2
CD/DVD Drive:	-----
LAN:	1x Realtek RTL8111F Gigabit LAN
Wireless LAN card:	Yes
Bluetooth:	-----

3G:	-----
TV Tuner:	-----
Watch Dog Timer:	Yes
Front Panel (ports):	Power ONDisplayPortHDMIAudioMic2x USB 2.03x USB 3.0LAN
Rear Panel (ports):	DC19VOPS JAE TX25
Power:	19V
Supported OS:	Windows: 8/8.1/10 Linux
Installed OS:	-----
Dimensions:	195mm x 180mm x 42.5mm
Weight:	1800g
Expansion:	-----
Fanless:	Nie
Humidity:	5% ~ 95%
Temp:	-10°C — 50°C
IP Norm:	-----
Storage temperature:	-20°C — 70°C

Product from the Archive - production finished

MiniPC zBOX-PSO-1030



TECHNICAL SPECIFICATION

RESISTANCE AND DURABILITY

CONNECTIVITY AND COMMUNICATION

DEVICE APPLICATION

AVAILABLE VERSIONS

The robust mini Industrial Computer zBOX-PSO-1030 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 2.0kg, so it can be conveniently carried in a bag or backpack.



Efficient components

The Intel Core i7-7700 quad-core CPU provides the best device performance.



Wireless network

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

HDD

Data Storage

The large disk capacity allows to store and archiving important user data.



Fan Cooling

The use of a fan in the Mini PC ensures adequate cooling of the processor.

[go](#)

SPECIFICATION

Performance

Processor	Intel Core i7 7700 (4x 3.60 GHz) LGA1151
Graphics card	Intel HD Graphics 630 & Nvidia GT-1030
Operating system	Support: Windows 8/8.1/10 Linux
RAM	8GB DDR4
Drive	HDD: 500GB (5400 rpm) SSD M.2 - 2280: 256GB

Interfaces

Connectivity	Wi-Fi LAN - 1x RTL8111F Gigabit Ethernet
Front panel	Power button Display-Port HDMI 1x Audio 1x Mic 2x USB 2.0 4x USB 3.0 1x LAN 1x RS-232 (Optional)
Rear panel	Power connector - DC19V 1x OPS JAE TX25
Other	
Available colors	Black
Dimensions	195mm x 180mm x 42,5mm
Weight	1.80kg

EFFICIENT PROCESSOR

The industrial computer zBOX-PSO-1030 uses a very efficient Intel Core i7-7700 processor model. Inside it there are four cooperating cores enabling more efficient processing of many tasks at the same time. The shared SmartCache memory, which has a capacity of up to 8MB, uses multi-level hierarchy is dynamically allocated to each processor core depending on the load. This reduced the average access time to the main storage.



7TH GEN INTEL® CORE™ PROCESSORS

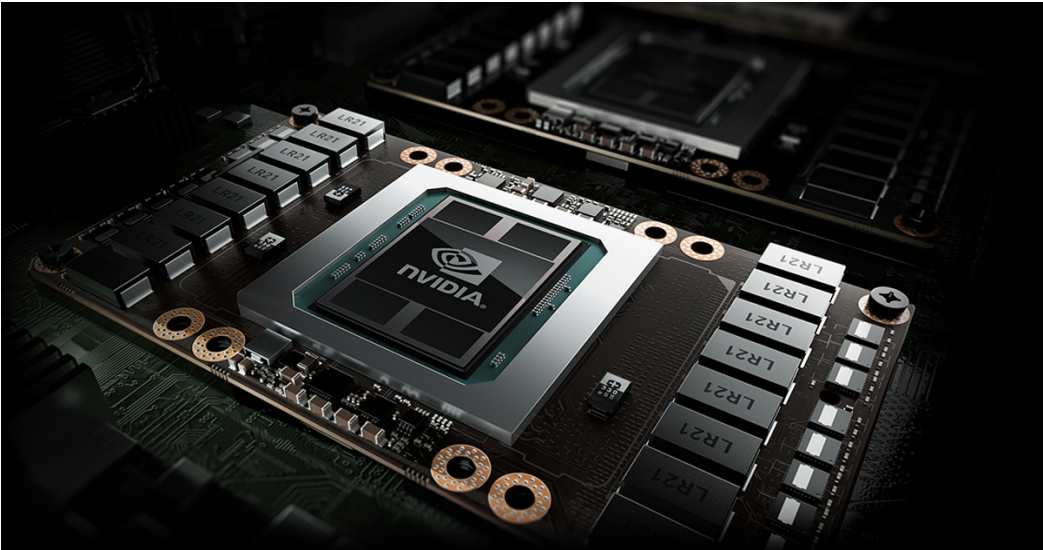
EFFICIENT / GRAPHIC

The industrial computer zBOX-PSO-1030 uses a very efficient GPU model from NVIDIA. On the motherboard there is a graphic card GT1030 with a memory capacity of 2GB and type GDDR5, which enables very efficient processing of many precise tasks related to graphic processing of digital images in graphic programs such as: Adobe Photoshop, GIMP, CorelDraw, Inkscape or AutoCAD. The card's memory uses a multi-level rendering hierarchy, it is dynamically allocated to the core graphics processor depending on the load.

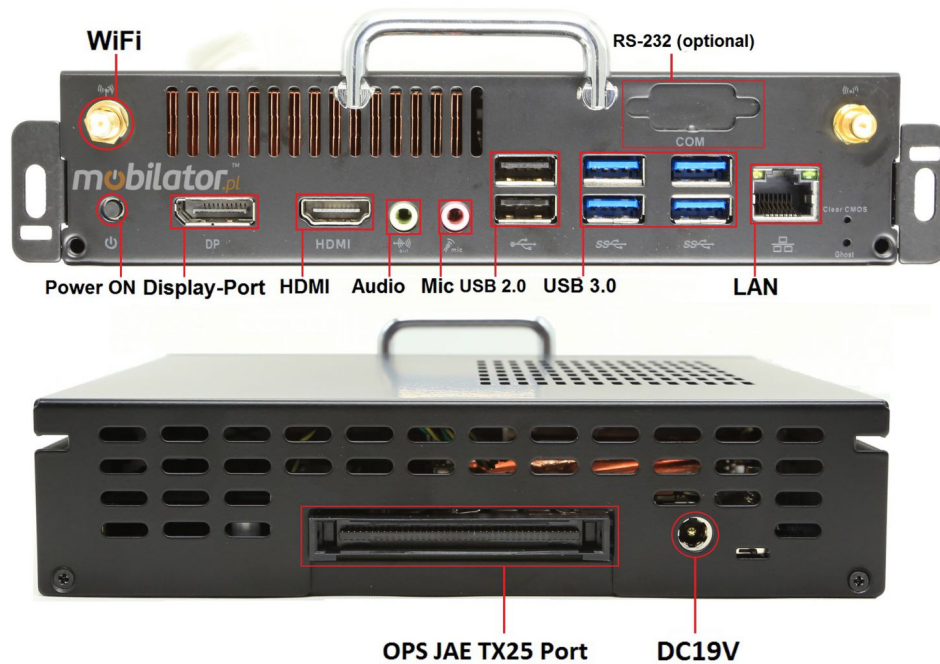
TABLE WITH SPECIFICATION

NVIDIA GeForce GT1030	
Generation	Pascal 14nm
Graphic layout	Pascal GP108
Stream processors	384
Texture units	24
Rasterizing units	8

NVIDIA GeForce GT1030	
Core clock	1227 / 1468 MHz
Computing power	1,13 TFLOPS
Video memory	2GB
Speed memory bus	64-bit
Memory clock	6008MHz
Memory type	GDDR5
Memory bandwidth	48 GB/s



CONNECTORS / INTERFACES



M.2 PORT

Industrial computer zBOX-PSO-1030 uses the M.2 connector to support very fast SSDs just on the M.2 connector. These drives offer higher performance than the SATA III and mSATA standard. Mobilator offers the M.2 SSD with 256GB of capacity.

Comprasion table for disks speed

Hard drive HDD	Read: 170MB/s Write: 140MB/s
Disk SSD 2.5"	Read: 560MB/s Write: 530MB/s
Disk SSD M.2 2280 128GB	Read: 1550 MB/s Write: 530MB/s
Disk SSD M.2 2280 256GB	Read: 1650MB/s Write: 950 MB/s
Disk SSD M.2 2280 512GB	Read: 1650MB/s Write: 1000MB/s



DIMENSIONS



Detailed device specification is available in the "[Technical data](#)" tab.

FAN 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 through openings in the housing. This solution provides better cooling in relation to passive cooling.

[go up...](#)

RESISTANCE

TEMPERATURES

zBOX-PSO-103 is designed for continuous operation in both very low and high temperatures ranging from -10 ° C to 50 ° C. If the device is switched off, it can already handle temperatures in the range of -20 ° C to 70 ° C.



Work temp.	-10°C — 50°C
Storage temp.	-20°C — 70°C
Humidity	5% — 95%

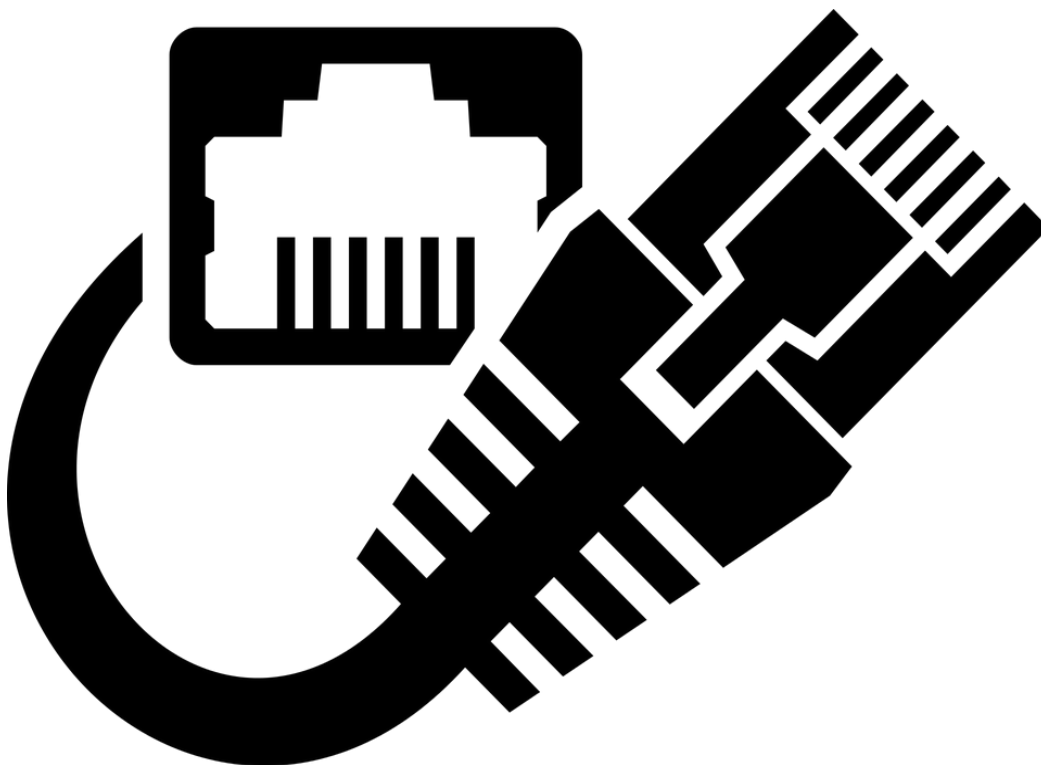
[go up...](#)

WIRELESS NETWORK

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 zBOX-PSO-1030 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 zBOX-PSO-1030 has built-in Realtek RTL8111F network adapter that can work in a fast Gigabit Ethernet network.

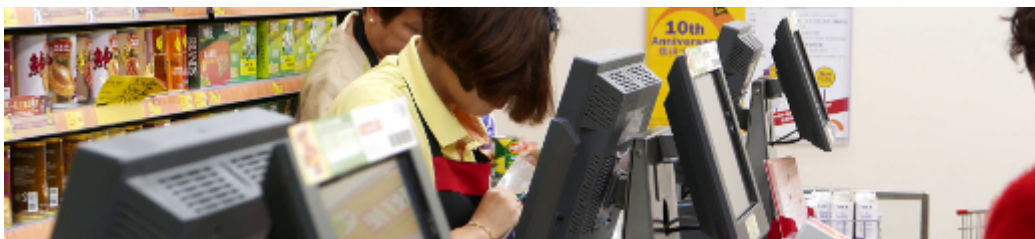


[go up...](#)

APPLICATIONS

TRADE AND SERVICES

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.



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.



More pictures of the device available in the ["Gallery"](#) tab.

[go up...](#)

VERSIONS

The industrial mini-computer zBOX-PSO-1030 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	v.6	v.7	v.8
WiFi	—								
Bluetooth	—	—	—	—		—			
4GB RAM	—			—	—	—	—	—	—
8GB RAM	—	—	—			—	—	—	—
16GB RAM	—	—	—	—	—				—
32GB RAM	—	—	—	—	—	—	—	—	
64GB SSD	—		—	—	—	—	—	—	—
128GB SSD	—	—		—	—	—	—	—	—
240GB SSD	—	—	—		—		—	—	—
500GB HDD	—	—	—	—		—		—	—
1TB HDD	—	—	—	—	—	—	—		—
2TB HDD	—	—	—	—	—	—	—	—	