



Polywell-J5040-NGC3 Pentium v.3 -
Rugged fanless miniPC with Windows 10
IoT operating system, SSD, WiFi and
powerful Intel Pentium processor



Category:	MiniPC Industry
Manufacturer:	Polywell
Supported OS:	Linux Windows 10
Installed OS:	Windows 10 IoT
Chipset:	Intel Chipset
CPU Support:	Intel Pentium
Installed CPU:	Intel Pentium Silver J5040 4x2.00GHz
Graphic Card:	Intel HD Graphics
Memory Support:	DDR4 (max.8GB)
Installed Memory:	8GB DDR4
Storage (HDD) Support:	SSD
Installed Storage (HDD):	240GB SSD
IP Norm:	-----
Temp:	0°C do 55°C
Storage temperature:	-20°C do 70°C
Humidity:	8% ~ 90%
Others:	Color Black

LAN:	Realtek Gigabit (10/100/1000 Mb/s) LAN
Wireless LAN card:	2230
3G:	-----
Bluetooth:	No
Rear Panel (ports):	1x HDMI 1x MiniDP 1x LAN 1x 3.5mm Audio Jack 1x USB Type-C
Front Panel (ports):	3x USB 3.0
Expansion:	-----
Power:	12V
Watch Dog Timer:	No
CD/DVD Drive:	-----
TV Tuner:	-----
Dimensions:	139,7 x 139,7 x 31,7 mm
Fanless:	Yes
Weight:	680g

2 296,80 zł

net price: 1 867,32 zł



TECHNICAL SPECIFICATION

RESISTANCE AND DURABILITY

CONNECTIVITY AND COMMUNICATION

DEVICE APPLICATION

AVAILABLE VERSIONS

Small dimensions industrial computers excel in environments where dust, dirt and moisture predominate. They are ideal for applications requiring quiet operation. Small and reliable MiniPC use heat-pipe technology and aluminum fins for passive cooling. The robust mini Industrial Computer Polywell-J5040-NGC3

Pentium

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 0.68 kg, so it can be conveniently carried in a bag or backpack.



Efficient components

The Intel Pentium Silver J5040 quad-core CPU provides improved device performance.



Wireless network

The mini PC can be

connected to nearby
wireless networks by
equipping it with an
optional Wi-Fi module.

SSD

Quick start

A modern SSD drive will
increase the speed of
application programs and
ensure quiet computer
operation.



Passive cooling

The use of passive cooling
in the Mini PC ensures
silent operation and
slows dust deposition.

SPECIFICATION

Polywell-J5040-NGC3 Pentium	
Processor	Intel Pentium Silver J5040 4x2.00GHz
Operation system	Windows 10 IoT
RAM	8GB DDR4
Drive	240 GB SSD

Polywell-J5040-NGC3 Pentium	
Graphic card	Intel® UHD 605 Graphics,4K Resolution 60Hz
Connectivity	WLAN: 1x M.2 2230 socket (Taken by WiFi+BT Module) LAN: 1x Realtek Gigabit (10/100/1000 Mb/s) LAN
Front panel	3x USB 3.0
Rear panel	1x HDMI 1x MiniDP 1x LAN 1x 3.5mm Audio jack 1x USB Type-C
Available colors	Black
Dimensions	139,7 x 139,7 x 31,7 mm
Weight	0.68 kg



Detailed device specification is available in the "Technical data".

Efficient processor



The industrial mini-computer
Polywell-J5040-NGC3 Pentium uses an efficient and energy-saving Intel
Pentium Silver J5040

processor. Inside it there are four cooperating cores enabling more efficient processing of many tasks at the same time. The shared cache memory in which the multilevel hierarchy is used is dynamically allocated to each processor core depending on the load. This reduces the average access time to the main memory.

Interfaces



***Illustrative image, Connectors:** 3x USB 3.0 | 1x MiniDP | 1x RJ-45 LAN | 1x HDMI |
1x USB Type-C | Audio jack | DC 12V

Dimensions



Thanks to the small dimensions of the MiniPC, the is versatile for use at home, in the office and in the industry, for example in the production hall. It's literally everywhere, and thanks to the VESA mount it can be mounted on the back of the monitor to optimize the job.

Dimensions	139,7 x 139,7 x 31,7 mm
Weight	680g

Passive 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 - there are no additional moving elements in the form of eg fans. This solution ensures noiseless operation, lower failure rate and greater protection against dust and other dirt while reducing the amount of energy consumed.

RESISTANCE AND DURABILITY



Temperatures

Polywell-J5040-NGC3 Pentium

is designed for continuous operation in both very low and high temperatures ranging from 0°C to 55°C. If the device is switched off, it can already handle temperatures in the range of -20°C to 70°C.

Work temp.	0°C to 55°C
Storage temp.	-20°C to 70°C
Work Humidity	5% to 95%
Storage Humidity	5% to 95%

Mechanical damage

The passive cooling system used in the MiniPC Polywell-J5040-NGC3 Pentium combined with the non-disk SSD make this computer very resistant to various types of mechanical injuries. An additional advantage of industrial computers is a solid construction made of high quality aluminum and specially designed in such a way that in addition to high efficiency in heat dissipation, it can also resist any external damage.

CONNECTIVITY AND COMMUNICATION

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 Polywell-J5040-NGC3 Pentium has been equipped the standard of - Realtek Gigabit , which allows transfer of files at a dizzying speed of up to 1000 Mb/s.

Wired LAN Network

The MiniPC Polywell-J5040-NGC3 Pentium has built-in Realtek network adapter that can work in a fast Gigabit Ethernet network.

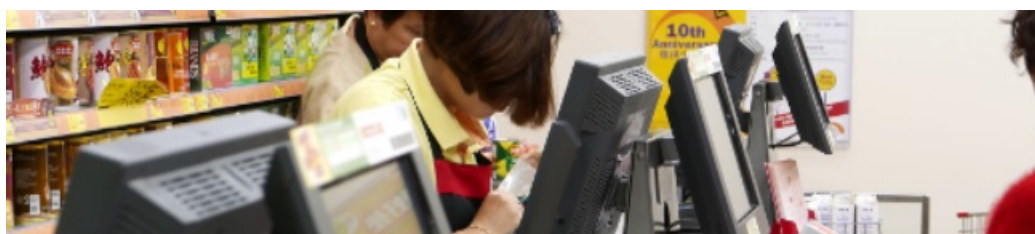


DEVICE APPLICATION

Trade and service

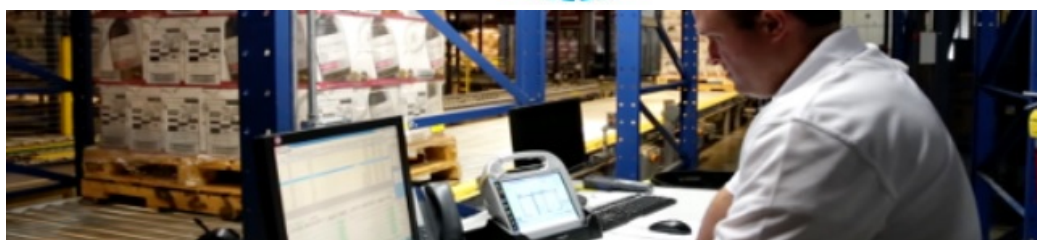
Mini PC is an ideal tool to support us in the implementation of many activities in the field of trade, small dimensions increase the possibility of its adaptation to activities such as issuing invoices or preparing documentation, which in turn allows us to convenient and optimal sales management. The VESA holder mounted to the housing provides many installation options, eg in stores (at the cash register, under the desktop, behind the LCD / LED monitor), in factory halls or in a delivery truck.

VESA



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. Its rugged casing and the fanless cooling system are ideal for harsh environments in such rooms. The solid construction guarantees long-lasting work, even in environments with high dustiness and dirt.



Transport and motorization

A small industrial computer can be used in transport thanks to the ability to work on 12V power supply. Then the mini computer can be used in passenger cars, buses, trams, taxis, trains and even in airplanes. It allows you to inform the driver about the current state of the vehicle, transfer its current location to the management center, display information for passengers, etc. It performs well in vehicles where small dimensions are important.



More photos in full resolution available in the "Gallery".

AVAILABLE VERSIONS

The industrial mini-computer Polywell-J5040-NGC3 Pentium 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.

	v.1	v.2	v.3
4GB DDR4 RAM		—	—
8GB DDR4 RAM	—		
128GB SSD		—	—
240GB SSD	—		
Linux		—	—
Windows 10 Pro	—		—
Windows 10 IoT	—	—	