



MobiPad PDA-B5501 v.1 - Industrial reinforced data collector with NFC, Bluetooth and 4G + WiFi technology with Android 6.0 (built-in printer)

Category:	UMPC - Ruggedized
Manufacturer:	Mobilator
Operating System:	Android 6.0
Display:	5,5" (720x1280) IPS Pojemnościowy
Brightness:	0-100,000 lux (total darkness to bright sunlight)
Processor:	ARM Cortex A53 Quad-core 64 bits 1.3 GHz
Memory:	2GB RAM
Hard Drive:	16GB
Flash Memory:	Yes
Touch screen:	Yes
Durability:	IP65
Drop:	1.5 meters
Shock:	-----
Vibration:	Yes

Temperature:	Operating temperature: -10°C -- +50°C Storage temperature: -20°C -- +70°C
Humidity:	0% - 95% non-condensing
1D barcode scanner (reader):	Yes
2D barcode scanner (reader):	No (Available in other version)
RFID scanner (reader):	Yes
Other:	Digital Compass Gravity Sensor
Battery:	7.4V 2950mAh Lithium
Working time on battery:	Operating time (depending on usage) - 12h
Fast battery replacement ability:	No
HotSwap battery:	No
LAN:	-----
WLAN:	IEEE 802.11 a/b/g/n
Bluetooth:	Bluetooth 4.0
WAN:	3G: WCDMA:850/900/1900/2100MHz CDMA/EVDO 800MHzGSM: 850/900/1800/1900MHz4G LTE-FDD:B1/B3/B7/B8/B28LTE-TDD:B38/B39/B40/B41
GPS:	Support GPS/AGPS
Camera:	8.0Mpx with LED flash light
In/Out:	USB 1x PSAM Thermal Printer
Optional accessories:	Docking station
Docking station connector:	-----
VESA standard – holders and mounts support:	-----
COM port:	No
Magnetic card reader (MSR):	-----
Microchip card reader:	-----
Contrast:	800:1
Graphics card:	-----
Chipset:	-----

BIOS:	-----
Casing material:	high quality plastik and rubber
Flash Card Reader:	Micro SD (Up to 64GB)
CD/DVD:	-----
Audio:	Build-in Microphone Build-in Speaker Audio Jack
Keyboard:	Touch screen + buttonsHome Remove Return ON/OFF Volume+/- Functional
Additional Navigation Devices :	-----
Color:	black
Swivel Hinge:	-----
VGA out:	-----
TV Out:	-----
TV Tuner:	-----
Security:	IP65
Waterproof:	IP65
Sand and dust:	IP65
Size:	210 x 80 x 42 mm 455g
Fanless casing:	Yes

Product from the Archive - production finished



TECHNICAL SPECIFICATION

RESISTANCE AND DURABILITY

CONNECTIVITY AND COMMUNICATION

DEVICE APPLICATION

AVAILABLE VERSIONS

Small dimensions industrial MobiPad PDA-B5501 excel in environments where dust, dirt and moisture predominate. They are ideal for applications requiring quiet operation. Small and reliable umpc use heat-pipe technology and plastic fins for passive cooling. The robust industrial laptop is a device designed for all industrial and non-continuous applications requiring continuous operation - 24 hours, 7 days a week.



Reinforced housing

The reinforced MobiPad case is resistant to mechanical damage and external factors such as temperature difference.



Lightweight design

The data terminal weight does not exceed 1 kg, so it can be conveniently carried in a bag or backpack.



Efficient components

The Cortex A53 quad - core CPU provides improved device performance.



Wireless network

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



Quick start

A modern eMMC memory will increase the speed of application programs.



IP65 Protection

Thanks to the IP65 standard, we are provided with complete protection against dust and immersion of the device in water.

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Performance

Processor	ARM Cortex A53 Quad-core 64bits 1.3GHz
Operating system	Android 6.0
RAM	2 GB
Drive	16 GB

Interfaces

Connectivity	Wi-Fi : IEEE 802.11 b/g/n Bluetooth 4.0 4G LTE-FDD:B1/B3/B7/B8/B28 LTE-TDD:B38/B39/B40/B41 3G WCDMA:850/900/1900/2100MHz
Connectors	2x PSAM 2x Micro SIM Thermal Printer (70 mm/s 48mm)

Other

Available colors	Black
Dimensions / Weight	210 x 80 x 42 mm / 455g
Barcode	1D Laser Scanner

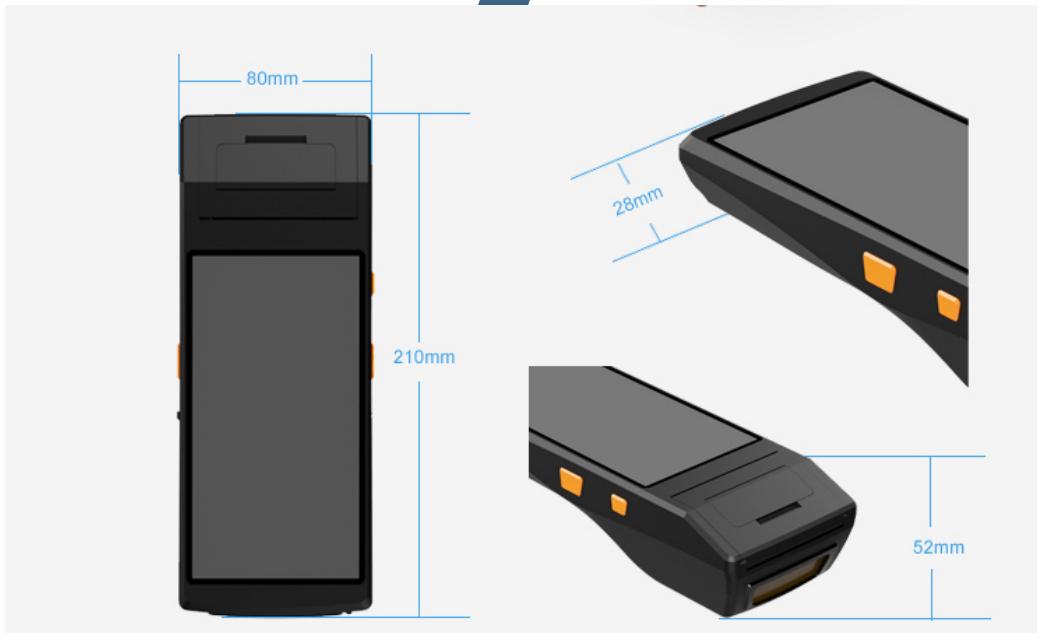


Detailed device specification is available in the "Technical data" tab.

EFFICIENT PROCESSOR

The industrial umpc MobiPad PDA-B5501 uses an efficient and energy-saving ARM Cortex A53 64bit Quad Core 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.

DIMENSIONS



The ergonomics of work is provided by a functional keyboard and a color touch screen, everything is enclosed in a slim and small housing. Thanks to this, you can take it anywhere with you.



MobiPad PDA-B5501 with a built-in thermal printer is designed for field work, where it can be used to print receipts and receipts. A small number of moving parts and a solid construction ensure trouble-free operation even in the most difficult conditions. The use of thermal printing technology eliminates the need for expensive ink or toners. No matter how many pages will be printed - the printer will run out of ink.

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RESISTANCE

TEMPERATURES

PDA-B5501 by MobiPad 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.

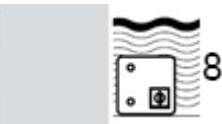


Work temp.	-10°C — ~50°C
Storage temp.	-20°C — ~70°C

IP65 PROTECTION

IP stands for Ingress Protection and is essentially a rating system developed by the International Electrotechnical Commission or the IEC. The system is now being used to classify different degrees of protection against intrusion or immersion. The IP rating is usually followed by two digits. The first indicates the level of dust-resistance, the second water resistance. Dust-resistance levels goes from 0 up to 6 while water-resistance goes from 0 to 8.

The first digit [x] Protection against solid objects	Protection Level	The second digits [y] Protection against liquids
No special protection	0	0 No special protection
Protection from solid objects greater than 50mm in diameter	1	Protection from dripping water
Protection from object not greater than 12mm in diameter	2	Protection from vertically dripping water (tilted up to 15°)
Protection from object not greater than 2,5mm in diameter	3	Protection from sprayed water (tilted up to 60°)
Protection from object not greater than 1mm in diameter	4	Protection from splashed water
Complete protection against contact, Protection against dust deposit	5	Protection from water projected from a nozzle
Complete protection against contact, Protection from infiltration of dust	6	Protection against heavy seas, or powerful jets of water
	7	Protection against immersion

The first digit [x] Protection against solid objects	Protection Level	The second digits [y] Protection against liquids
		Protection against complete, continuous submersion in water

MECHANICAL DAMAGE

The passive cooling system used in the umpc combined with the eMMC memory 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 plastic and specially designed in such a way that in addition to high efficiency in heat dissipation, it can also resist any external damage.

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CONNECTION

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 umpc X14 has been equipped the standard of - 802.11(a/b/g/n), which allows transfer of files at a dizzying speed of up to 300 Mb / s.

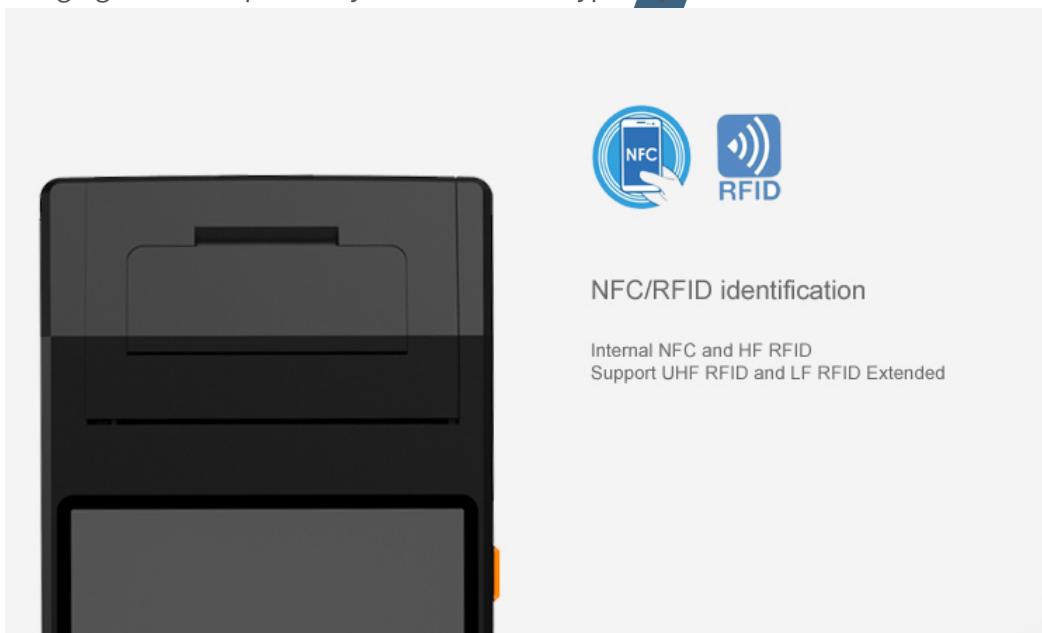
BARCODE SCANNER (OPTION)

Barcode Reader allows you to read, decode and transfer stored data in barcode to your computer. Thanks to dynamic scanning method and the large range of reading, data collector is capable to carefully collecting data, which helps to increase the rate and efficiency of work. Simplified installation procedure, convenient and intuitive design allow to start scanner work very easy and quickly.

rugged data collector with ip66 norm barcode scanner new portable device mobilator

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It's a set of ideas and technology that enables smartphones and other devices to establish radio communication with each other by touching the devices together or bringing them into proximity to a distance of typically 10 cm or less.



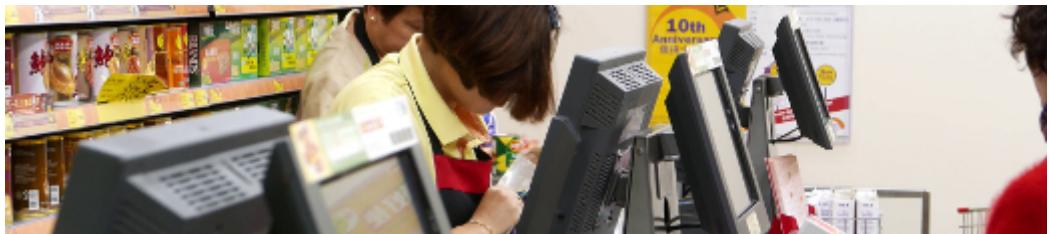
NFC/RFID identification

Internal NFC and HF RFID
Support UHF RFID and LF RFID Extended

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TRADE AND SERVICES

Industrial umpc 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 quick scan 1D or 2D barcodes in optimal sales management.



WAREHOUSE AND LOGISTICS

Thanks high performance an industrial umpc can be used to connect multiple devices in a warehouse and make their management much easier. Its rugged casing are ideal for harsh environments in such rooms. The solid construction guarantees long-lasting work, even in environments with high dustiness and dirt.



WORKSHOP AND DIAGNOSTIC

With the help of dedicated connectors supported by our data collector, it can be used as a diagnostic tool for cars and machines with an on-board computer, thanks to which we are able to independently detect faults and also test specific systems.



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

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VERSIONS



The industrial MobiPad PDA-B5501 umpc 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.1	v.2
Android 6.0	—	—
Android 7.0	—	—