



MobiPad U90 v.16 - Industrial Data Collector

Category:	UMPC - Ruggedized
Manufacturer:	Mobilator
Operating System:	Android 7.0 Nougat
Display:	5.0 " IPS 720*1280
Brightness:	-----
Processor:	Arm Cortex-A53 64-bit Quad-Core 1.3 GHz
Memory:	2GB
Hard Drive:	-----
Flash Memory:	16GB Nand Flash Storage
Touch screen:	Yes
Durability:	IP66
Drop:	1.5 meters
Shock:	-----
Vibration:	-----

Temperature:	Operating temperature: -20°C -- +55°C Storage temperature: -25°C -- +70°C
Humidity:	5 - 95% (no condensation)
1D barcode scanner (reader):	2D Honeywell N6603
2D barcode scanner (reader):	2D Honeywell N6603
RFID scanner (reader):	LF+UHFLF (125kHz) ISO11784/5, ISO18000-2UHF (840-960MHz) ISO18000-6B/C, EPC Class1Gen2
Other:	-----
Battery:	3.7V 4800mAh Li-Ion
Working time on battery:	7-8 hours
Fast battery replacement ability:	No
HotSwap battery:	No
LAN:	No
WLAN:	802.11 a/b/g/n
Bluetooth:	Bluetooth 4.1
WAN:	LTE-FDD B1 B3 B8 LTE-TDD B38 B39 B40 B41 WCDMA 2G/3G/4G Band1 Band8 TD-SCDMA Band34 Band39 CDMA BC0 DCS1800
GPS:	Built-in
Camera:	8Mpx
In/Out:	1 x USB 2.0, 1x USB Type C, 1 x Micro SD (max.32GB), 1 x Micro-SIM
Optional accessories:	-----
Docking station connector:	No
VESA standard – holders and mounts support:	No
COM port:	No
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	Integrated
Chipset:	-----

BIOS:	-----
Casing material:	high quality plastic and rubber
Flash Card Reader:	microSD (max. 32GB)
CD/DVD:	-----
Audio:	Built-in Speaker : Microphone
Keyboard:	Alphanumeric (+ function keys) : On-screen
Additional Navigation Devices :	-----
Color:	black
Swivel Hinge:	-----
VGA out:	No
TV Out:	-----
TV Tuner:	-----
Security:	IP66
Waterproof:	IPX6
Sand and dust:	IP6X
Size:	172 × 80 × 27mm- 500g
Fanless casing:	Yes

Product from the Archive - production finished



MobiPad U90 has a specially designed, reinforced structure, adapted to harsh environmental conditions. Similarly, as the equipment produced for the military, meets the requirements of IP66 norm. Thanks to its structure is resistant to dust and water. The device is proper for use in the home and industry.

Processor(CPU)	ARM Cortex-A53 64-bit Quad-core 1.3GHz
Display	5.0" (720*1280) IPS HD Color Touch Screen
RAM	2GB
ROM	16GB Nand Flash
Connectors	Micro-USB Micro SD/TF card slot (max. 32GB) Micro-SIM
GPS	Built-in GPS Support A-GPS
Audio	Speaker Microphone
Camera(optional)	8Mpx
Battery	3.7V, 4800mAh Li-Ion (Czas działania ok. 7-8 h)
Keyboard	Vitual qwerty keyboard and actual figure button
Environment	Android 7.0 Nougat
Modules	GPS /4G/3G/2G WiFi Bluetooth LF+UHF
Dimensions	172mm*80mm*27mm 500g
Resistance	IP66
Readers	1D: Mindeo 1D uE966* / Honeywell N4313* 2D: Newland EM3090* / Newland EM3096* / Honeywell N6603

*

Optional equipment, available on specific versions only.

Select a version for each other

Select a version tailored to your needs. Clicking on the hardware number configurations will redirect you to the product with parameters listed below. At the customer's request can be created configurations which are not available in the offer. Detailed parameters are available in the **"Technical Data"**.

	v.0	v.1	v.0.1	v.2	v.3	v.4	v.5	v.6	v.7	v.8
NFC	—	—		—	—	—	—	—	—	—
RFID HF	—		—	—	—	—	—	—	—	—
RFID LF	—	—	—		—	—	—	—	—	—
RFID UHF	—	—	—	—		—	—	—	—	—
1D Mindeo uE966	—	—	—	—	—		—	—	—	—
1D Honeywell N4313	—	—	—	—	—	—		—	—	—
2D Newland EM-3090	—	—	—	—	—	—	—		—	—
2D Newland EM-3096	—	—	—	—	—	—	—	—		—
2D Honeywell N6603	—	—	—	—	—	—	—	—	—	
	v.9	v.10	v.11	v.12	v.13	v.14	v.15	v.16	v.2.1	v.3.1
NFC	—	—	—	—	—	—	—	—		
RFID HF			—	—	—	—	—	—	—	
RFID LF	—	—			—	—				—
RFID UHF	—	—	—	—					—	
1D Mindeo uE966	—	—	—	—	—	—	—	—	—	—
1D Honeywell N4313		—		—		—		—	—	—
2D Newland EM-3090	—	—	—	—	—	—	—	—	—	—
2D Newland EM-3096	—	—	—	—	—	—	—	—	—	—
2D Honeywell N6603	—		—		—		—		—	—
	v.4.1	v.5.1	v.5.2	v.6.1	v.7.1	v.8.1				
NFC										
RFID HF	—	—		—						
RFID LF	—	—		—						

RFID UHF	—	—	—	—	—
1D Mindeo uE966	—	—	—	—	—
1D Honeywell N4313	—	—	—	—	—
2D Newland EM-3090	—	—	—	—	—
2D Newland EM-3096	—	—	—	—	—
2D Honeywell N6603	—	—	—	—	—

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Warehouse inventory



Fruit store



Retailers super

Data collector MobiPad U90 can be used for projects like: supermarket cashless payment, inventory management and logistics tracking. Device will be also good option to business data management and other services.

Operating temperature: -20 ° C ~ 50 ° C

Operating Humidity: 5% ~ 95%



Clothing shop



Warehouse management



Library

Barcode Scanner 2D

Barcode Reader 2D 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.



1D	1D / 2D
Mindeo uE966	Newland: EM3090, Newland: 3096
Honeywell N4313	Honeywell: N6603

Radio-Frequency Identification (RFID)

RFID is a technology used to identify objects and to control the flow products. Reading of information from the special tags that are attached to objects (but not only, because RFID is also applicable to the identification of the animals and even humans) followed by radio. Depending on the type of tag changes the amount of information that can hold as well as the maximum distance at which data can be read. RFID tags, is an alternative to bar codes - more comfortable and more efficient.

Type	RFID LF	RFID HF
Frequency	125KHz	13.56MHz
Potocol	ISO11784/5	ISO 14443A/15693
Read distance	3-8cm	3-8cm
Type	RFID UHF	
Frequency	840-960~868MHz	
Potocol	EPC C1 GEN2/ISO 18000-6C	
Antenna	Circular antenna(3dBi)	
Read distance	6-7m, tags and environment dependent	

Near Field Communication (NFC) (Option)

Its 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 devices are used in contactless payment systems, similar to those used in credit cards and electronic ticket smartcards and allow mobile payment to replace/supplement these systems. NFC is used for social networking, for sharing contacts, photos, videos or files.

	NFC
Frequency	13.56 MHz
Reading distance	od 2 do 4 cm
Supported card standard	Mifare Write/Read
Supported standards	ISO/IEC 18092




Applicable standards

Operating	-20°C -- +50°C
Storage	-25°C -- +70°C
Humidity	5% - 95% RH non-condensing
Dust	IP6x (dust)
Water	IPx6 (water)
Drop	1.5m



IP66 Resistance

IP stands for Ingress Protection and is essentially a rating system developed by the International Electrotechnical Commission or IEC. This 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 and water resistance goes from 0 to 8.

No special protection	0		0	No waterproofing
Protection from solid objects greater than 50mm in diameter	1		1	Protection from dripping water
Protection from solid objects greater than 50mm in diameter	2		2	Protection from vertically dripping water (tilted)

When device is equipped with the **WCDMA** module, you need only insert a SIM card in the special slot and you are able instantly connect to the internet. Integrated software allows you to automatically detect and configure connections to mobile networks. Internal **4G** module allows you to use MobiPad U90 devices are used in contactless payment systems, similar to those used in credit cards and electronic ticket smartcards. NFC is used for mobile payment to replace/supplement these systems. NFC is used for social networking, for sharing contacts, photos, videos or files.

WiFi	802.11 a/b/g/n
GPS	Yes
Bluetooth	Bluetooth v4.1
WWLAN(4G/3G/2G)	LTE-FDD B1 B3 B8
	LTE-TDD B38 B39 B40 B41
	WCDMA Band1 Band8
	TD-SCDMA Band34 Band39
	CDMA BC0
	DCS1800
	EGSM900



You no longer need to worry about whether you will put your device into a briefcase, backpack or travel bag, the problem disappears when you have MobiPad U90. The device weighs just 500g and its dimensions (172 x 80 x 22mm) allow you to take this device everywhere. Professional performance and energy efficiency makes, that MobiPad U90 is in a group of devices which enjoy great popularity in the market in the industrial segment.

Dimensions

172 × 80 × 27mm

Weight

500g

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[more photos in the "Photo Gallery" ...](#)

[specification of this version is available in the "Technical data" ...](#)