



## MobiPad U90 v.11 - Industrial Data Collector

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

|                                                    |                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Temperature:</b>                                | Operating temperature: -20°C -- +55°CStorage temperature: -25°C -- +70°C                                    |
| <b>Humidity:</b>                                   | 5 - 95% (no condensation)                                                                                   |
| <b>1D barcode scanner (reader):</b>                | <b>1D Honeywell N4313</b>                                                                                   |
| <b>2D barcode scanner (reader):</b>                | Optional                                                                                                    |
| <b>RFID scanner (reader):</b>                      | <b>LF (125kHz) ISO11784/5, ISO18000-2</b>                                                                   |
| <b>Other:</b>                                      | -----                                                                                                       |
| <b>Battery:</b>                                    | 3.7V 4800mAh Li-Ion                                                                                         |
| <b>Working time on battery:</b>                    | 7-8 hours                                                                                                   |
| <b>Fast battery replacement ability:</b>           | No                                                                                                          |
| <b>HotSwap battery:</b>                            | No                                                                                                          |
| <b>LAN:</b>                                        | No                                                                                                          |
| <b>WLAN:</b>                                       | 802.11 a/b/g/n                                                                                              |
| <b>Bluetooth:</b>                                  | Bluetooth 4.1                                                                                               |
| <b>WAN:</b>                                        | LTE-FDD B1 B3 B8 LTE-TDD B38 B39 B40 B41 WCDMA 2G/3G/4G Band1 Band8 TD-SCDMA Band34 Band39 CDMA BC0 DCS1800 |
| <b>GPS:</b>                                        | Built-in                                                                                                    |
| <b>Camera:</b>                                     | 8Mpx                                                                                                        |
| <b>In/Out:</b>                                     | 1 x USB 2.0, 1x USB Type C, 1 x Micro SD (max.32GB), 1 x Micro-SIM                                          |
| <b>Optional accessories:</b>                       | -----                                                                                                       |
| <b>Docking station connector:</b>                  | No                                                                                                          |
| <b>VESA standard – holders and mounts support:</b> | No                                                                                                          |
| <b>COM port:</b>                                   | No                                                                                                          |
| <b>Magnetic card reader (MSR):</b>                 | No                                                                                                          |
| <b>Microchip card reader:</b>                      | No                                                                                                          |
| <b>Contrast:</b>                                   | -----                                                                                                       |
| <b>Graphics card:</b>                              | Integrated                                                                                                  |
| <b>Chipset:</b>                                    | -----                                                                                                       |

|                                        |                                            |
|----------------------------------------|--------------------------------------------|
| <b>BIOS:</b>                           | -----                                      |
| <b>Casing material:</b>                | high quality plastic and rubber            |
| <b>Flash Card Reader:</b>              | microSD (max. 32GB)                        |
| <b>CD/DVD:</b>                         | -----                                      |
| <b>Audio:</b>                          | Built-in Speaker : Microphone              |
| <b>Keyboard:</b>                       | Alphanumeric (+ function keys) : On-screen |
| <b>Additional Navigation Devices :</b> | -----                                      |
| <b>Color:</b>                          | black                                      |
| <b>Swivel Hinge:</b>                   | -----                                      |
| <b>VGA out:</b>                        | No                                         |
| <b>TV Out:</b>                         | -----                                      |
| <b>TV Tuner:</b>                       | -----                                      |
| <b>Security:</b>                       | IP66                                       |
| <b>Waterproof:</b>                     | IPX6                                       |
| <b>Sand and dust:</b>                  | IP6X                                       |
| <b>Size:</b>                           | 172 × 80 × 27mm- 500g                      |
| <b>Fanless casing:</b>                 | 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   <b>LF</b>              |
| Dimensions       | 172mm*80mm*27mm   500g                                    |
| Resistance       | IP66                                                      |
| Readers          | 1D: Mindeo 1D uE966* / <b>Honeywell N4313</b>             |
|                  | 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 1D

Barcode Reader 1D 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 while 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 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" ...