



Industrial Data Collector MobiPad MH-83 v.7

Category:	UMPC - Ruggedized
Manufacturer:	Mobilator
Operating System:	Android 4.1.2
Display:	3.5"(800x480), WVGA LCD, IPS, Sunlight readable: capacitive
Brightness:	500nits
Processor:	Samsung S7898 Dual Core 1.0GHz
Memory:	512MB
Hard Drive:	4GB
Touch screen:	Tak
Durability:	IP54
Drop:	1.5 meters
Shock:	-----
Vibration:	-----
Temperature:	Operating temperature: -10°C -- +50°C Storage temperature: -20°C -- +70°C
Humidity:	0 to 95% relative humidity
1D barcode scanner (reader):	-----
2D barcode scanner (reader):	2D CMOS - Motorola SE4500
RFID scanner (reader):	NFC (13.56Mhz) ISO14443 A/BISO15693
Other:	Factory accessories: - cover - hand strap Sensors: - accelerometer - light sensor - proximity sensor - telemeters to 5 m (IrDA)
Battery:	4500mAh Li-Ion + 290mAh

Working time on battery:	10 hours
Fast battery replacement ability:	Yes
HotSwap battery:	Yes
LAN:	No
WLAN:	IEEE 802.11 a/b/g/n
Bluetooth:	Bluetooth 4.0 + EDR
WAN:	WCDMA/EVDO/TD/FDD-LTE with data and voice
GPS:	Built-in + A-GPS, EPO
Camera:	Yes - 5Mpx (Auto-Focus + LED Flash)
In/Out:	mini USB (support OTG), AudioJack, Mirco SD card slot (max.32GB)
Optional accessories:	Gun Handle
Docking station connector:	-----
VESA standard - holders and mounts support:	-----
COM port:	-----
Microchip card reader:	-----
Contrast:	500:1
Graphics card:	PowerVR SGX540
Chipset:	-----
BIOS:	-----
Casing material:	high quality plastic and rubber
Flash Card Reader:	microSD (max. 32GB)
CD/DVD:	-----
Audio:	AudioJack : Built-in Speaker : Microphone
Keyboard:	Numeric (+ function keys) : On-screen
Additional Navigation Devices :	-----
Color:	black
Swivel Hinge:	-----
VGA out:	No
TV Out:	-----
TV Tuner:	-----
Security:	-----
Waterproof:	IP54
Sand and dust:	IP54
Size:	157 mm x 76 mm x 28 mm- 324g
Fanless casing:	Yes

Product from the Archive - production finished



MH83

- Dual Core** SAMSUNG S7898 DUAL CORE
2 X 1.0 GHZ
- 3.5"** 3.5" IPS SUNGLIGHT READABLE
- 3G** WCDMA 850/1900/2100MHZ
- GPS, A-GPS, EPO
- DUAL BATTERY:**
 - BUILT-IN BACK BETTERY 290 MAH
 - REPLACEABLE BATTERY 4500 MAH
- SCANNER: 2D CMOS SE4500**

 **MOTOROLA**

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MobiPad MH83 has a specially designed, reinforced structure, adapted to harsh environmental conditions. Similarly, as the equipment produced for the military, meets the requirements of IP54 norm. Thanks to its structure is resistant to dust and water. The device is proper for use in the home and industry.



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Processor	Samsung S7898 Dual Core 1.0GHz
Graphics card	PowerVR SGX540
Display	3.5" (800x480) WVGA LCD Sunlight readable IPS: capacitive
RAM	512MB
ROM	4GB
Connectors	MicroSD : Mini USB
GPS	GPS A-GPS EPO
Audio	AudioJack : Speaker : Microphone
Camera	5Mpx (Auto-Focus + LED Flash)
Battery	Dual Battery: Built-in back battery 290mAh New Portable Devices NIP: 872-120-56-82 Mobile.: +48 508 235 505 e-mail: sklep@mobilator.pl Account number: ALIOR BANK SA 68 2490 0005 0009 4500 2328 8078
Keyboard	Numeric (+function keys) + On-Screen

Modules (factory)	GSM (GPRS/EDGE) WCDMA (HSDPA) : WiFi : Bluetooth 4.0 : GPS+A-GPS		
Dimensions	157 mm x 76 mm x 28 mm- 324g		
Resistance	IP54		
Readers (optional)	RFID LF (125khz/134.2khz) - 5cm	1D - Standard (CCD)	1D - MOTROLA: SE955 (LASER)
			1D/2D -Motorola SE4500 (CMOS)
Readers NFC	NFC 13.56Mhz ISO14443 A / B i ISO15693		
Sensors	Light sensor, accelerometer, proximity sensor, Irda Reciver/Transmitter with 5M distance		

Refer to the "Technical Data" overlap - what possibility have subsequent versions of the devices. To gain additional information about the product click on the "Ask about the product" or go to the [contact form](#).



Select a version for yourself

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**".

	1D (CCD)	1D (LASER)	1D/2D (CMOS)	LF (5cm)	Gun handle	NFC	IrDA (up to 5m)	3G	Camera
v.1	-	-	-	-	-	✓	✓	✓	✓
v.2	✓	-	-	-	-	✓	✓	✓	✓
v.3	-	-	-	✓	-	✓	✓	✓	✓
v.4	-	-	-	✓	✓	✓	✓	✓	✓
v.5	-	✓	-	-	-	✓	✓	✓	✓
v.6	-	✓	-	-	✓	✓	✓	✓	✓
v.7	-	-	✓	-	-	✓	✓	✓	✓
v.8	-	-	✓	-	✓	✓	✓	✓	✓
v.9	-	✓	-	✓	✓	✓	✓	✓	✓
v.10	-	-	✓	✓	✓	✓	✓	✓	✓

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Barcode Scanner

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.

1D

Standard (CCD)

MOTOROLA: SE955 (LASER)

1D / 2D

MOTOROLA: SE4500 (CMOS)



RFID

RFID (Radio-Frequency Identification) is a technology used to identify objects and control flow of products. The Read information from special tags that are attached to the objects followed by radio. Depending on the type of tag the amount of stored information is changing as well as the maximum distance at which data can be read.

RFID LF (125KHz / 134,2 KHz)



The LF band covers frequencies from 30 KHz to 300 KHz. Typically LF RFID systems operate at 125 KHz, although there are some that operate at 134 KHz. This frequency band provides a short read range of 10 cm, and has slower read speed than the higher frequencies, but is not very sensitive to radio wave interference.

	LF
Frequency	125 kHz / 134.2 kHz
Reading Range	up to 5cm



Applicable standards

Operating	-10°C -- +50°C
Storage	-20°C -- +70°C
Humidity	5% - 95% RH non-condensing
Dust	IP5x (dust)
Water	IPx4 (water)
Drop	Multiple drops to concrete 4.9ft./1.5m the entire operation range

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IP54 Resistance

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 digit indicates the level of dust-resistance, the second digit indicates the level of water resistance. Dust-resistance levels go from 0 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 dripping water (tilted up to 15°)

Protection from object not greater than 2,5mm in diameter

3



3 Protection from sprayed water (tilted up to 60°)

Protection from object not greater than 2,5mm in diameter

4





When device is equipped with the WCDMA module, you need only insert a SIM card in the slot and you are able instantly connect to the internet. Integrated software allows you to automatically detect and configure connections to mobile networks. Internal 3G module used in MobiPad automatically switches between 3G and GSM network coverage. Built-in speaker and microphone allows you to make voice calls.

WiFi	802.11a/b/g/n
GPS	GPS, supported A-GPS, EPO
Bluetooth	Bluetooth 4.0 + EDR; Class II
GSM/3G	WCDMA/EVDO/TD/FDD-LTE/GSM
	The ability to make voice calls

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You no longer need to worry about whether you will put your device into a briefcase, backpack, bag, the problem disappears forever when you have MH83. The device weighs just 324g, dimensions (157 x 76 x 28mm) allow you to take this device everywhere. Professional performance and energy efficiency makes, that MH83 is in a group of devices which enjoy great popularity in the European market in the industrial segment.



Dimensions
Weight

157 × 76 × 28mm
324g



Quick change battery

Friendly design allows for fast replacement of the battery. This is useful when you working in the field with difficult conditions, where there is no additional power sources and the time is very important.

In addition, the use of hot-swap function known from mobile phones. Allows you to quickly connect additional battery without shutting down the operating system. So when you replace the battery will not lose valuable data.

