

Chainway MC21



Chainway MC21 v.3 - Industrial warehouse terminal with Zebra scanner, 2D CCD, 3GB RAM and 32GB ROM, GPS

Category:	UMPC - Ruggedized
Manufacturer:	CHAINWAY
Operating System:	Android 12.0 GMS
Brightness:	-----
Processor:	Cortex A-53 2.0 GHz quad-core
Memory:	3 GB
Hard Drive:	-----
Flash Memory:	32GB ROM
Touch screen:	Yes
Durability:	IP65
Drop:	1,5m
Shock:	-----
Vibration:	Yes
Temperature:	Working: -20°C -- 50°C Storage: -40°C -- 70°C
Humidity:	5% -- 95%

1D barcode scanner (reader):	Yes
2D barcode scanner (reader):	Zebra 2D CCD
RFID scanner (reader):	-----
Other:	-----
Battery:	5000mAh Li-Ion
Working time on battery:	-----
Fast battery replacement ability:	No
HotSwap battery:	Yes
LAN:	No
WLAN:	802.11 a/b/g/n/ac/d/e/h/i/k/r/v
Bluetooth:	Bluetooth 5.0
WAN:	4G LTE
GPS:	Built-in
Camera:	Back: 13Mpx (Flash)
In/Out:	USB 2.0 Typ-C OTG, 1x Micro SIM + 1x Nano SIM/TF
Docking station connector:	Yes
VESA standard – holders and mounts support:	No
COM port:	No
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	-----
Chipset:	-----
BIOS:	-----
Casing material:	Plastic + Rubber
Flash Card Reader:	microSD (max. 128GB)
CD/DVD:	-----
Audio:	Built-in microphone and speaker

Keyboard:	Scan keys on the left and right + main keyboard
Additional Navigation Devices :	-----
Color:	Black
Swivel Hinge:	-----
VGA out:	No
TV Out:	-----
TV Tuner:	No
Security:	-----
Waterproof:	IPX5
Sand and dust:	IP6X
Size:	186.6mm x 66.7mm x 24.3 mm - 287 g
Fanless casing:	Yes
Weight:	287g

1 524,59 zł

net price: 1 239,50 zł

Chainway MC21



SPECIFICATION

RESISTANCE

WIRELESS COMMUNICATION

FUNCTIONALITY

APPLICATION

AVAILABLE VERSIONS AND ACCESSORIES

Chainway MC21 is a modern, waterproof industrial smartphone designed for extreme applications. It has a specially designed, reinforced construction that

meets the requirements of IP65, which confirms the protection of the device against dust and water.



SPECIFICATION

Chainway MC21	
Processor	Cortex A-53 2.0 GHz quad-core
Operating system	Android 12.0 GMS
RAM	3GB
ROM	32GB
Display	3.5", 480x800 resolution
Touch screen	Multi-touch

Chainway MC21

Battery	5000mAh
Camera	13 MPx Autofocus with flash
Protection	IP65 fall up to 1.5 m.
Communication	4G Bluetooth 5.0 Wi-Fi GPS
Connectors	USB 2.0 type-C, OTG
Memory card	Micro SD (max. 128 GB)
SIM card	Micro SIM
2D Scanner	Zebra2D CCD



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

Dustproof industrial smartphone Chainway MC21 was equipped with high performance, energy-efficient Quad-core, 2.0GHz. Inside, there are four cores that allow for more efficient processing of multiple tasks simultaneously. Shared caching, which uses a multi-level hierarchy, is dynamically allocated to each processor core according to the load. This reduces the average access time to main memory. Enhanced graphics card technology lets you enjoy full HD video and movies. Low power consumption guarantees long battery life.

Ergonomic design



Chainway

MC21

industrial smartphone is designed for resistance and convenience. The sleek and rugged 24,3mm thick design and stylish case will make the smartphone very well suited for industrial use and more. The unique size has been carefully thought out to make the device more comfortable and ergonomic. The non-slip casing makes it safe and secure to hold it in your hand, and the rubber corners further protect your device against possible damage as a result of falls.

Dimensions	186.6mm x 66.7mm x 24.3mm
Weight	287g

Keypad



The keyboard of the MC21 mobile computer is designed with a focus on performance and functionality. The device is equipped with a main keyboard and dedicated scanning keys on the left and right sides, making operation significantly more convenient. This keyboard, as part of a lightweight and portable mobile computer, has been designed to enhance comfort while working in diverse environments.

RESISTANCE



IP65 Protection

The IP standard defines the degree of protection provided by the enclosure of an electrical device against such factors as: access to dangerous parts inside the enclosure, penetration of foreign matter, splashing or immersion.

IP6X	No ingress of dust, complete protection against contact. A vacuum must be applied. Test duration of up to 8 hours.
IPX5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.

1.5m drop resistance

Specially designed construction gives the machine a chance of accidental falls from up to 1.5 meters in operating mode, even on hard surfaces. In addition, the smartphone screen is protected by specially tempered glass Gorilla Glass.

Extreme temperatures

Chainway

C61-PE

is suitable for continuous operation in both low and high temperatures in the range of -20 ° C to 50 ° C. When the device is off, it can handle temperatures ranging from -40 ° C to 70 ° C. In addition, the rugged industrial smartphone performs well in rooms with increased humidity, ensuring proper operation even with 95% relative humidity.

Working Temp.	-20°C do 50°C
Storage Temp.	-40°C do 70°C
Humidity	5% do 95%

WIRELESS COMMUNICATION



GPS Navigation

Waterproof smartphone is equipped with a professional GPS module combining low power consumption with high accuracy. Navigation is fast and smooth, allowing you to easily and easily reach any destination.

Bluetooth 5.0

Bluetooth enables wireless short-range communication between various electronic devices, such as the keyboard, computer, laptop, palmtop, mobile phone and many others. In the fourth version of this standard, energy consumption was reduced considerably, at the expense of lower transfer

costs, and real operating coverage increased.

Wi-Fi network

Dual-band Wi-Fi provides fast network access wherever you can connect to secured or open Wi-Fi networks. This is a convenient solution for people who have a work or residence router and a wireless network that can be used at no extra cost. The shock-resistant industrial smartphone, is equipped with the latest 802.11ac technology, which allows file transfer speeds up to 1 Gb/s.

Standards	802.11(a/b/g/n/ac)
Frequencies	2.4GHz and 5GHz

NFC

Near Field Communication - a short-range, high-frequency, radio communication standard that allows for wireless data exchange at a distance of up to several centimeters. The technology is a simple extension of ISO / IEC 14443 that combines the smart card interface and reader in one device. NFC devices can communicate with both existing devices in the ISO / IEC 14443 standard, as well as with other NFC devices, and thus are compatible with the existing and already in use public transport and payment infrastructure. NFC present in the device supports ISO / IEC 14443A / B and ISO15693 protocols. Working distance is 2-4 cm.

FUNCTIONALITY



Barcode Scanner

Quick and accurate identification of the object relieves the warehouseman and does not create a bottleneck in logistics processes. 2D barcode reader allows you to read, decode and send to your data stored in the bar code. With dynamic scanning capabilities Chainway MC21 quickly and accurately retrieves the data, which helps to increase the rate and efficiency. You can jump-start a whole because with simplified installation procedure and intuitive, comfortable design to prepare the scanner to work is very easy.

2D Scanner

Zebra, 2D CCD

Chainway MC21 is listed on Android Enterprise. Android Enterprise is a Google-led initiative to enable the use of Android devices and apps in the workplace. The program offers APIs and other tools for developers to integrate support for Android into their enterprise mobility management (EMM) solutions. Android Enterprise Recommended makes it easy for businesses to select, deploy, and manage Android devices and the appropriate services. Thanks to this program, you can be sure that such devices and services meet the high requirements related to their use in the company, which is confirmed by their approval by Google. The link to the device on the Google list is [HERE](#).

APPLICATION

Trade and Services

Thanks to their size and light weight, smartphone data collectors are a useful tool for sales representatives. Today's applications running under the collector system enable even entering the data collector's contractor database, which allows us to later search for it quickly by name or NIP number. We can do the same with our commodity base, which can work in parallel with the database of contractors. Additional use of collectors in the trade, such as sending orders or invoices directly to the company through the GSM network or Wi-Fi.



Industry and Construction

Industrial smartphones and data collectors are characterized by high resistance to adverse working conditions. Tightness, dust and water resistance of enclosures, certified by IP (dust and water resistance standards), can withstand even the harshest conditions in industrial infrastructure or on the construction site. With appropriate applications, collectors can be used for control and control of various industrial processes, as well as for data collection and analysis.



Warehouse

An industrial data sheet is the ideal solution for quick stocktaking. In addition, depending on the software used, it streamlines the process of entering and delivering goods into the warehouse, enables price control and dispensing, helps to collect and order orders, and identifies customers and servicing the rental. The advantages of using data collectors are undoubtedly: time savings, customer satisfaction thanks to the correct price and speed of operation.



AVAILABLE VERSIONS AND ACCESSORIES

The industry-leading smartphone is available in several versions to suit different needs. By clicking on the hardware configuration number you will be redirected to the product with the parameters given in the table below. In addition, on request, you can create a configuration not currently available in the offer.



More pictures available in the "Gallery" tab.

	v.1	v.2	v.3
Scanner 2D Newland NLS-CM60 V3.0	—	—	—
Scanner 2D Zebra, 2D CCD	—	—	—