NFC

5G

Wi-Fi

GPS

android

Bluetooth™

IP67

Chainway MC50 v.1 - Rugged warehouse scanner with NFC module, eight-core processor, 4GB RAM and 64GB ROM and a Newland 2D scanner

Category:	UMPC - Ruggedized
Manufacturer:	CHAINWAY
Operating System:	Android 12
Display:	6" IPS,1440×720, HD
Brightness:	-----
Processor:	Qualcomm480/4350 Octa-core, 2.0 GHz
Memory:	4GB
Hard Drive:	-----
Flash Memory:	64GB ROM
Touch screen:	Yes
Durability:	IP67
Drop:	1.5 meters
Shock:	-----
Vibration:	-----
Temperature:	Operating temperature: -20°C to 50°CStorage temperature: -40°C to 70°C

Humidity:	5% - 95%
1D barcode scanner (reader):	**2D Newland CM60**
2D barcode scanner (reader):	**2D Newland CM60**
RFID scanner (reader):	YES | **NFC** ISO15693, ISO14443A/B, MIFARE
Other:	Proximity Sensor | Light Sensor | Accelerometer
Battery:	5000mAh rechargeable polymer lithium
Working time on battery:	-----
Fast battery replacement ability:	Yes
HotSwap battery:	YES
LAN:	No
WLAN:	802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v/w
Bluetooth:	Bluetooth 5.1
WAN:	GSM/EDGE/GPRS (850/900/1800/1900) CDMA2000 1x EV-DO Rev.A BC0 (800MHz) TDD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B3/B5/B7/B8/B20/B28A/B28B) WCDMA(B1/B5/B8)
GPS:	Built-in (GPS) + Glonass + Beidou + Galileo
Camera:	Front: 5MPx Rear: 16MPx + AF + Flash
In/Out:	1x MicroSD (TF), 1x SIM, USB-C|USB 3.1.OTG
Optional accessories:	Charge Cradle | Handle | Battery | Strap
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:	-----
Chipset:	-----
BIOS:	-----

Casing material:	High quality plastic
Flash Card Reader:	MicroSD (TF) - max. 256GB
CD/DVD:	-----
Audio:	Built-in Speaker, Microphone
Keyboard:	On-screen keyboard
Additional Navigation Devices :	No
Color:	Black
Swivel Hinge:	No
VGA out:	No
TV Out:	No
TV Tuner:	No
Security:	IP67
Waterproof:	IPX7
Sand and dust:	IP6X
Size:	161 x 78 x 16mm
Fanless casing:	Yes
Weight:	280g

617,31 €
net price: 501,87 €

SPECIFICATION

RESISTANCE

DATA COLLECTING

WIRELESS COMMUNICATION

APPLICATION

ACCESSORIES AND AVAILABLE VERSIONS

Chainway MC50 is a modern, waterproof industrial data collector with a pistol grip designed for extreme applications. It has a specially designed, reinforced construction that meets the requirements of IP67.

SPECIFICATION

Chainway MC50

Processor	Qualcomm Snapdragon™ 480 Octa-core, 2.0GHz
Operating system	Android 12
RAM	4GB
Flash	64GB ROM
Display	6" IPS (1440×720)
Touch screen	Capacitive Gorilla Glass
Battery	5000 mAh
Camera	Front: 5MPx Rear: 16MPx + AF + Flash
Protection	IP67
Communication	5G	Bluetooth 5.1	Wi-Fi	GPS	NFC
Connectors	USB typu C|USB 3.1|OTG
Memory card	1x MicroSD (TF) - max. 256GB
SIM card	1x SIM
Sensors	Proximity Sensor Light Sensor Accelerometer
2D Scanner	2D Newland CM60
NFC	YES
Warranty	1 year

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

Dustproof industrial data collector was equipped with high performance, energy-efficient Qualcomm480/4350

processor. Inside, there are eight 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.
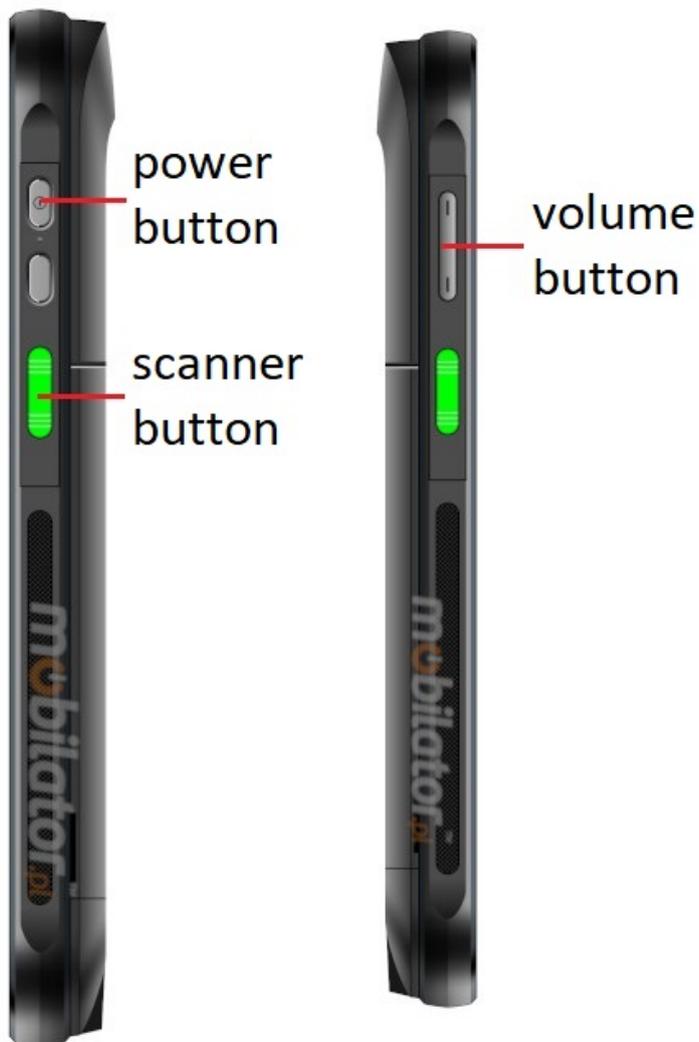
Ergonomic design

16 mm

78 mm

161 mm

Industrial Data Collector Chainway MC50 is designed for resistance and convenience. The sleek and rugged design and stylish case will make the collector 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.

Dimensions	161 x 78 x 16mm
Net weight	280g

Buttons

power button

scanner button

volume button

Capacitive screen

Glass
ITO
Spacers   Spacers   Airgap
ITO
Glass

With the capacitive screen, the reaction of the device is not to directly press the screen, but to change the electrostatic field at the point where the device is touched. This allows for much more precise handling and gentle brushes on the screen. In addition, we can use multitouch technology, the ability to control our collector with a few fingers at once.

RESISTANCE

IP67 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 ho
IPX7	Can be submerged up to 1 meter in water for 30 minutes.

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 collector screen is protected by specially tempered glass.

Extreme temperatures

Chainway   MC50

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 collector performs well in rooms with increased humidity, ensuring proper operation even with 95% relative humidity.

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

DATA COLLECTING

2D Barcode Scanner

Skaner kodów 2D

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.

2D Scanner	2D Newland CM60

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 ISO14443A/B 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.

WIRELESS COMMUNICATION

5G Module

5G technology is based on a radio network with fast transmission and the rare occurrence of downtime or transfer errors. The main distinguishing feature of the 5G from its predecessor (4G) is the speed of transfer between devices. The fourth generation network offers 300 Mb / s of mobile internet speed and 90 Mb / s of packet transfer. Technology enables users, including: extremely fast radio networks, Internet access, personalized telephony, and access to modern media and games services.

5G Module	N1/N3/N8/N28/N41/N78/N79
3G Module	B1/B2/B3/B5/B7/B8/B20/B28A/B28B/B34/B38/B39/B40/ B41

GPS Navigation

Chainway   MC50
 mobile terminal is equipped with a professional A-GPS module (GPS+Glonass+Beidou+Galileo) combining low power consumption with high accuracy. The navigation works quickly and smoothly, which will allow you to reach any destination in an easy and simple way.

Bluetooth 5.0

Bluetooth 5.0 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 collector is equipped with the latest 802.11ac technology, which allows file transfer speeds up to 500 Mb/s.

Standards	802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v/w
Frequencies	2.4GHz + 5GHz (Dual-Band)

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 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).

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.

ACCESSORIES AND AVAILABLE VERSIONS

Data collector can be equipped with accessories that facilitate work. We can choose between a charging station, a pistol grip, a battery that extends the operating time of the device, or a strap that makes it easier to hold the collector. No matter which collector you choose. Both will make your work easier and make the performance of tasks a pleasure.

> (i) More photos in full resolution available in the "Gallery".

	v.1	v.2
2D Newland CM60		—
2D Zebra SE4710	—	