

Chainway 2022

New product launch

Session

CHAINWAY

成为信息

- 2022.11 -

New Products in RFID Series



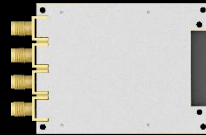
RFID Modules

- Innovative research and development based on Impinj's new generation of high-performance E-series chips;
- Higher UHF read / write performance with up to **2X** higher reception sensitivity to achieve reliable performance in new and present solutions;
- Lower power consumption, chip power consumption is reduced by **50%**;
- Smaller form factor, ideal for small, next-generation IoT devices;
- The R-series module compatible design makes it easy to upgrade the performance of existing products.

RFID Modules (Impinj E710 chip)



CM710-1



CM710-4



CM710-8



CM710-16



CM-7N



CM710-Nano

IMPINJ
E710
Chip

RFID Modules (Impinj E710 chip)

Industry-leading **long reading range** reception sensitivity

Compared to R2000 module:

- Higher reception sensitivity and up to 2x longer reading range for more reliable performance;
- Reduced power consumption and support energy-saving devices powered by battery;
- Exactly the same dimensions and communication protocols, and thus connects seamlessly to the App's of clients.



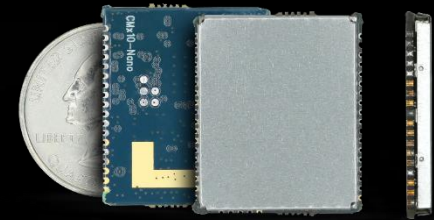
RFID Modules (Impinj E510 chip)



CM510-1



CM-5N



CM510-Nano

IMPINJ
E510
Chip

RFID Modules (Impinj E510 chip)

High performance reception sensitivity in **medium reading range**

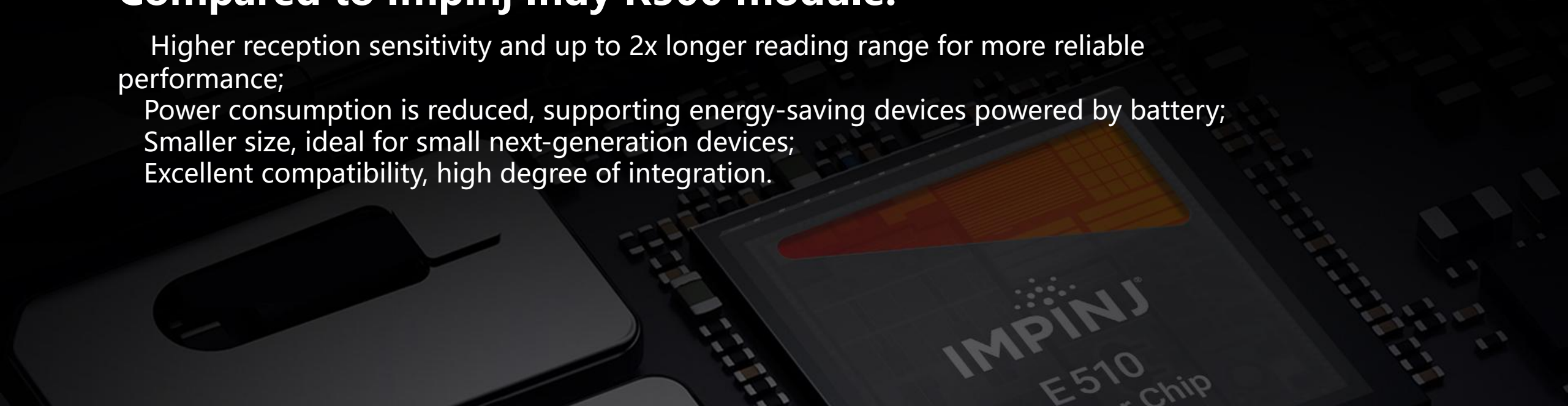
Compared to Impinj Indy R500 module:

Higher reception sensitivity and up to 2x longer reading range for more reliable performance;

Power consumption is reduced, supporting energy-saving devices powered by battery;

Smaller size, ideal for small next-generation devices;

Excellent compatibility, high degree of integration.



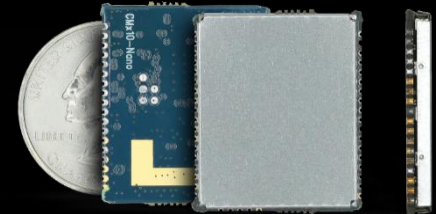
RFID Modules (Impinj E310 chip)



CM310-1



CM-3N



CM310-Nano

IMPINJ®
E310
Chip

RFID Modules

(Impinj E310 chip)

Provides good reception sensitivity and high reading rate at **short reading range**

Compared to Impinj Indy R500 module:

Higher reception sensitivity and up to 1.5x longer reading range for more reliable performance;
Lower power consumption, support energy-saving devices powered by battery;
Smaller size, ideal for small next-generation devices;
Good compatibility, high degree of integration.



Applicable Areas

Handheld RFID Reader



Fixed RFID Reader



Wearable RFID Reader



RFID Industrial Tablet



RFID Scanner



RFID Printer



RFID Card Sender



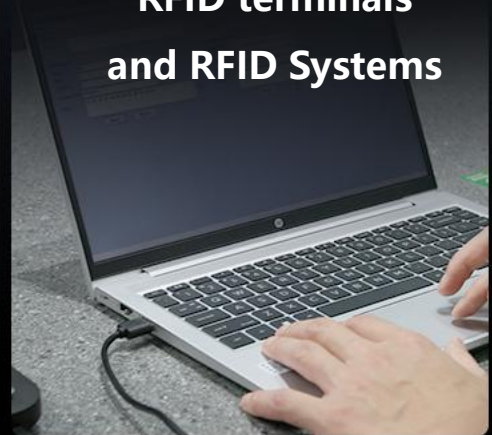
RFID Smart Cabinet



RFID Access Door



RFID terminals and RFID Systems



Handheld RFID Readers



Chainway C5

C5

Handheld RFID Readers





More powerful UHF performance

- Integrated design of UHF and whole machine;
Adopt high-performance self-developed module based on Impinj E710 chip;
Continuously optimized antenna technology;
Unique anti-collision, anti-cross-reading and anti-interference algorithms;
The maximum read rate up to **950 tags/s** (Circular polarization);
- The longest reading range is **25m**, improved by **20%** compared to R2000.



Two versions are available

5-inch screen +
fingerprint version
Maximize data security



6-inch large screen
version
Better visual experience





Dual Camera

5M-pixels front camera

13M-pixel rear camera, with flashlight





Dual PSAM



NFC

Optional feature;

5dBi UHF antenna without NFC;

4dBi UHF antenna with NFC.



5dBi



4dBi





Barcode scanning

Support for wide range of scan engine options:

Zebra SE4710;

Honeywell N6603;

CM60; CB300.





Fingerprint Recognition

Support 5-inch screen with fingerprinting;
Meet the certification needs of banks and the
Ministry of Public Security.



Robust System Configuration

Android 11

CPU

Cortex A53 Octa-core
2.3GHz

Memory

3+32GB
4+64GB
6+128GB

Wireless transmission

4G
Dual band WIFI
Bluetooth 5.0



Battery

- **6700mAh** removable handle battery (without host battery);
- Supports battery hot-swap, built-in **100mAh** spare battery;
- Optional **13400mAh** battery, with modified handle.



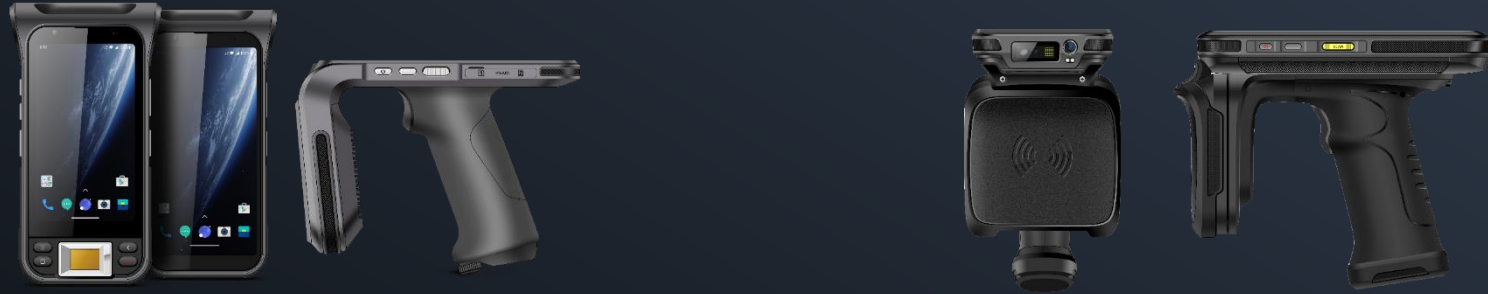


Industrial-grade protection

- **IP65** rated protection, meets IEC sealing standards
- **1.5m** Drop resistant



C5 vs C72



Performance parameters	Ocat-core 2.3GHz / Standard Configuration 3+32GB、4+64GB、6+128GB	
UHF module	CM2000-1/CM710-1 (CM710 is about 20% higher than CM2000 actual reading distance test)	
UHF Antenna	5dBi Antenna / 4dBi antenna + NFC antenna	4dBi Antenna (remove the NFC chip and antenna.))
Screen	5-inch 1280*720 6-inch 2400*1080	5.2-inch 1920*1080
Battery	100mAh spare batteries + 6700mAh handle battery (Optional13400mAhbattery)	8000mAh host battery
Card slots	2 PSAM card slots ; 1 Nano SIM card slots, Either 1 Nano SIM or TF card slot	1 Nano SIM card slot, Either 1 Nano SIM or TF card slot
Keyboard	1 power key, 2 scan keys, 1 multifunction key, 2 volume (+/-) keys	1 power key, 2 scan keys, 1 multi-function key
Camera	13M rear camera, 5M front camera	13M rear camera
NFC	Work with 4dBi UHF antenna	Not supported in the future, Removed from main chip and antenna
Fingerprint	Ministry of Public Security related fingerprints	/

Applicable Industries

It can be widely used in banking, public security, warehousing, retail, logistics and other industrial scenarios.

Bank



**Public
security**



Warehousing



Retail



Logistics



Chainway SR160

SR160

UHF RFID Scanner

Powerful UHF and 1D/2D capabilities



Excellent UHF and barcode performance

Employs self-developed CM-3N module,
based on the Impinj E310 chip, powerful UHF,

Reading range **>30cm**, wide range of applications.

Equipped with high-performance 2D barcode scanning engine,
supports scanning of common 1D/2D barcodes on the market.



Three flexibly switchable operating modes

- Single barcode / single RFID / hybrid barcode and RFID scanning modes (Hybrid mode takes the first data read, either barcode or RFID, as the final, and no longer reads the other).
Easy mode switching: easy to switch with the physical buttons on the back; Switch to another function mode with each press, and a corresponding indicator light provides visual prompt.



Fixed and Mobile Versions



Fixed

Supports USB, simultaneous power and communication
Serial port communication



Mobile

Supports Bluetooth 5.0 and USB
Battery: 2600mAH aluminum-ion battery
Charging specification: 5V/1.5A

Applicable Industries

Widely used in retail chains, supermarkets, logistics, manufacturing and other fields.

Retail chains



Supermarket



Logistics



Manufacturing



Chainway CP30

CP30

RFID Printer



High-performance System Configuration

Built-in advanced chip

Huge storage space

128 MB memory

256 MB flash memory

ARM9 32-bit processor





3.5-inch LCD touch screen

- Equipped with 3.5-inch LCD touch screen, supports touch and visual operation;
Offline operation via USB Host.



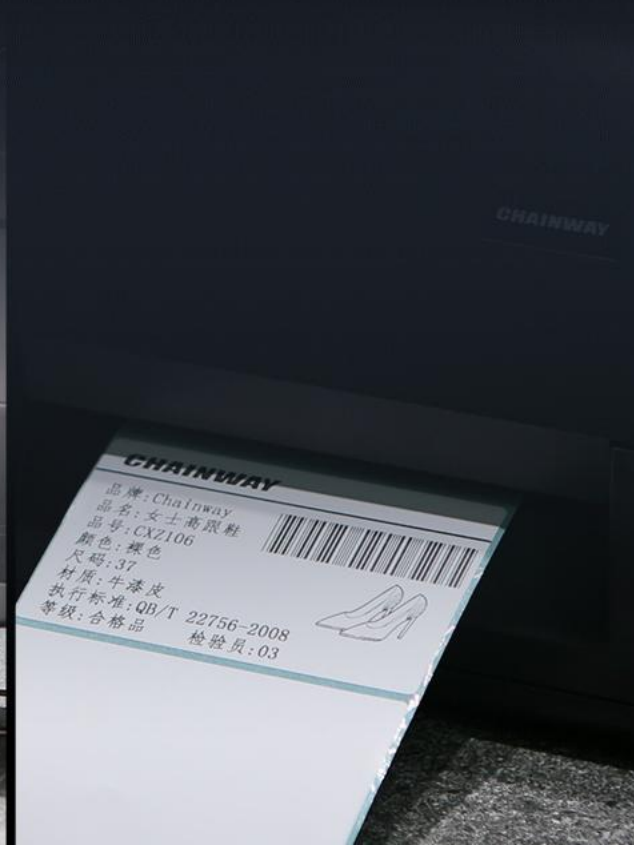
Printing method and speed

- Supports thermal transfer / direct thermal printing
- Maximum print speed:
8ips (203dpi) / 6ips (300dpi)
- Supports automatic printhead resolution recognition at **203dpi / 300dpi**



RFID and barcode printing

- Excellent RFID and barcode printing functions;
Accurately and quickly print various types of barcodes, RFID tags, invoices, wristbands, etc., and meet the printing needs of various industries.



Support Multiple communication interfaces

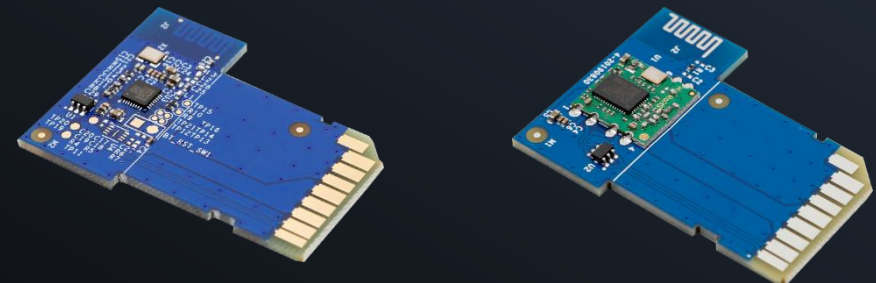
Standard

USB-B / USB Host /
Ethernet



Optional

Bluetooth 4.0 / BLE /
wireless network card



High Security and Compatibility

Support a variety of consumables and printing specifications, whether it is the precise positioning and printing of 10mm-tall small labels, or the printing of series of RFID labels placed only 20mm apart, CP30 can easily cope with it.



Applicable Industries

Widely used in fixed asset management, logistics and transportation, retail, jewellery, health care and other industries.

**Fixed asset
management**



**Logistics and
transportation**



Retail



**Jewellery
industry**



Healthcare



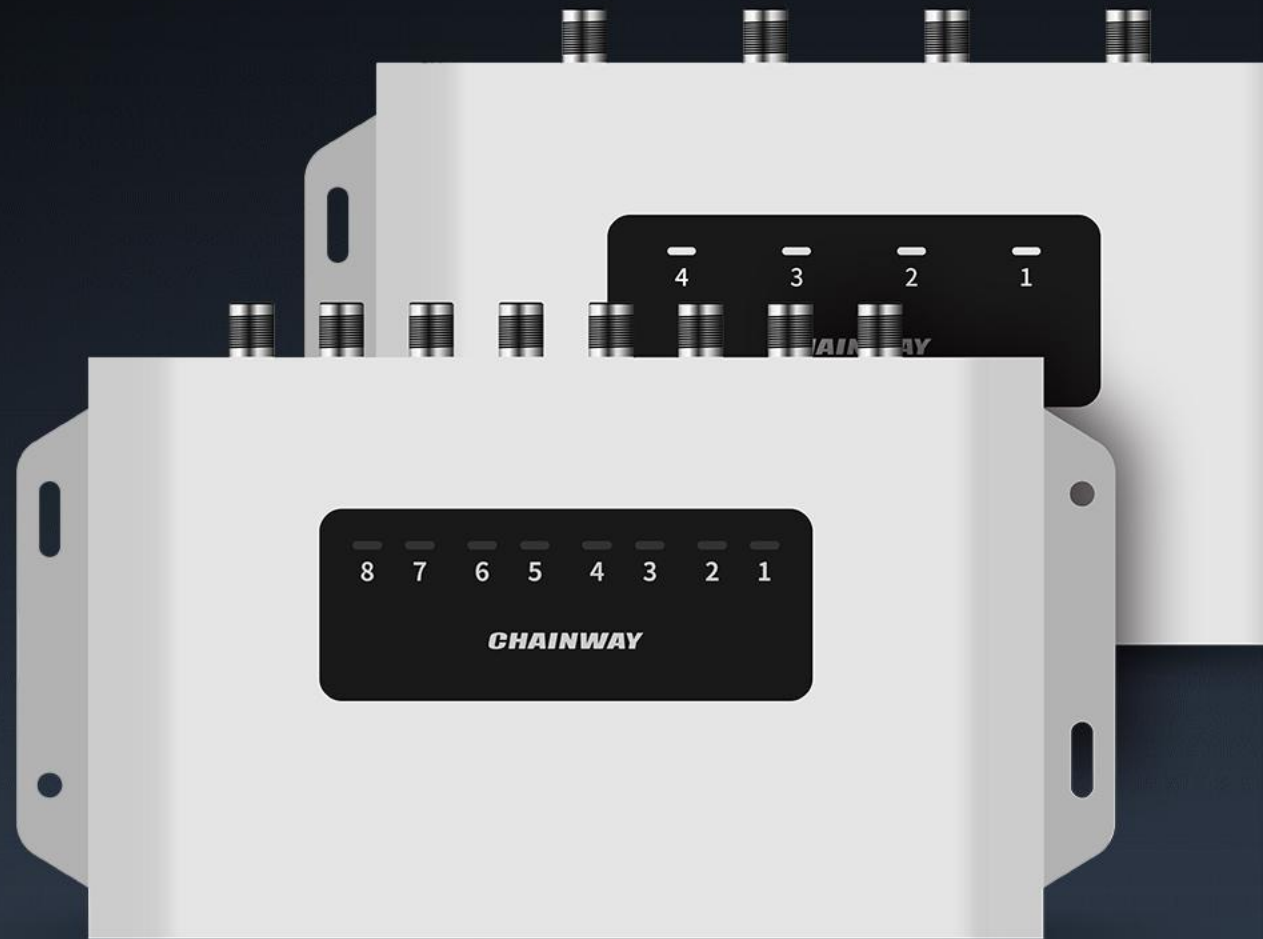
Fixed RFID Reader



Chainway U300

U300

Fixed RFID Reader



Simple and User-friendly

With a simple body design, front antenna reading display, UHF antenna interface on one side, and the debugging interface on the other, simple, modest, and user-friendly.



System Configuration

- **Android 11**

- **CPU: Quad-core 2.0GHz**

- **RAM + ROM: 2GB + 16GB**

4

3

2

1

CHAINWAY



Powerful UHF Performance

- Core module: adopts **Impinj E710 / Indy R2000** chip, powerful UHF performance.
- UHF antenna: 4-channel 50Ω RF connector RP-TNC female socket design, compatible with 8-port designs.



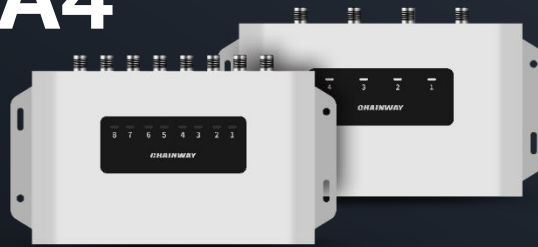
Support Multiple Interfaces and Power Supply Modes

- Integrates 1 RS-232, 1 RJ45, 1 USB Host, 1 USB Device, 1 HDMI port, rich interfaces.

- Supports multiple power supply modes: DC (24V), POE, POE+.



U300 vs URA4



Performance Parameters	Quad-core 2.0GHz 2+16GB	Octa-core 2.0GHz 2+16GB
operating system	Android 11 / Linux (additional resources required)	Android 9
UHF module	R2000/E710 (mainly E710)	
UHF Antenna	Choose the antenna according to the actual situation	
Communication interface	1 RS-232 , 1 RJ45, 1 USB Host, 1 USB Device, 1 HDMI port	1 RS-232, 1 RJ45, 3 USB2.0 Type A, 1 Type C, support USB Host
GPIO	4 input optocoupled, 4 outputs optocoupled, with isolation, 1 Wiegand	
Power supply mode	DC (12V)、 POE (802.3af 13W)、 POE+ (802.3at 25.5W) Optional 24V 2.5A	
Wireless communication	Bluetooth、 WiFi	4G、 Bluetooth、 WiFi

Applicable Industries

It meets the needs of complex application environments in warehousing, file management, library management, production line management, medical device cabinet, unmanned retail and other industries.

Warehousing



File management



Library management



Assembly Line management



Medical device cabinet



Unmanned retail



Chainway UR1A

UR1A

Fixed RFID Reader



UHF Antenna Integrated Design

- Self-developed high-performance module CM710-1 / CM2000-1 (based on Impinj E710 / R2000);
- Integrated antenna design, which effectively avoids wiring in simple environments;
- Supports different sizes of antennae of various specifications, current model comes with 6dBi / 9dBi antenna.



Support Multiple Communication Interfaces

RS-232, RJ45, BNC connectors (external connection to other peripherals for triggering, etc.)



Waterproof, Suitable for Indoor and Outdoor Use Multiple scenarios

In addition to indoor application scenarios such as warehousing, file management, library management, banking, and production line management, as the equipment is **IP67** rated, it can fully adapt to the requirements of some outdoor environments.



Chainway R1

R1

UHF/HF RFID Card Sender





Excellent HF & UHF Performance

- Multi-functional with integrated UHF & HF functions ; UHF card reading range is 15cm, HF card reading range is 5cm, cross-reading is effectively avoided.
- UHF RFID module uses high-performance Impinj E310 chip to guarantee stability and reliability of tag reading and writing.





Supports PSAM

PSAM functions are employed mostly for HF scenarios,
In addition to the card slot at bottom, R1 supports
contact card slot.





Support Multi-system Development

Supports debugging in Windows, Linux and other operating systems, and provide manufacturer demo.



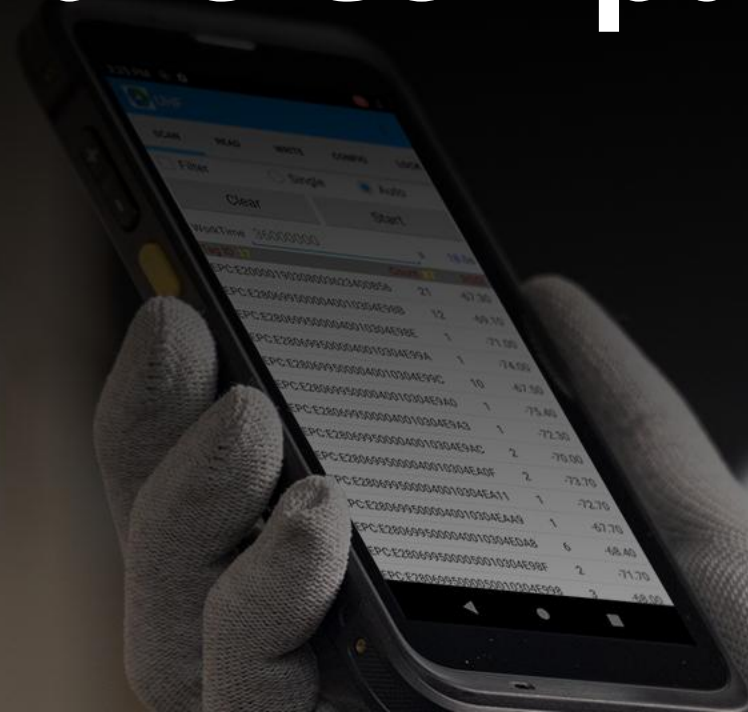
Wide Range of Applicable Fields

Widely applicable in logistics, access control, attendance, production process control and other fields.



Interactive Session

Mobile Computer



Chainway MC95

MC95

Mobile Computer

Cost-effective



Robust System Configuration

- Android 12
 - Cortex-A53 2.0 GHz
 - RAM+ROM: 2GB + 16GB / 3 GB + 32GB
 - 5.45 inch, resolution of 1440 x 720
- Wireless transmission: 4G, dual-band WIFI, Bluetooth 5.0



Industry-leading Barcode Scanning

- Equipped with industry-leading Zebra scan engine:
Zebra SE4710 to provide powerful barcode scanning performance;
- Offers a variety of other scan engine options, including CB300, CM60 to fully meet the diverse application needs of clients.





Other Data Acquisition Functions

- Dual front and rear cameras: 5M / 13M pixels, Flashlight support
Supports optional NFC read / write function and meets the application requirements of more scenarios





Long battery life

5000mAh large capacity removable battery, battery can be replaced any time, meets the needs of high-intensity data collection work in express delivery, logistics and other industries.



Rugged and Durable

- Subjected to a series of specialized design and reliability tests, extremely robust and durable, IP68 rated and is able to withstand drops from a height of 1.5m.
- Water has not gone into the device being operated normally at 1m under water for 30 minutes in a test.
- Fully resistant to damages such as drops, bumps, scratches, water splashes, that may occur in day-to-day applications.
- Cope with various demanding applications with ease.



MC95 vs C66



Performance Parameters	Octa-core 2.0GHz 3+32GB	Octa-core 2.0GHz 3+32GB
Operating system	Android 12	Android 11
Dimensions	160.0 x 75.0 x 16.4mm	160.0 x 76.0 x 15.5
Weight	288g	287g
Screen	5.45-inch 1440*720	5.5-inch 1440*720
Battery	5000mAh removable host battery	4300mAh removable host battery
Communication interface	USB Type-C 2.0	USB Type-C 3.1
Card slots	1 Nano SIM card slot, Either 1 Nano SIM or TF Card slot (The explosion-proof version supports 1 PSAM)	1 Nano SIM card slot, Either 1 Nano SIM or TF card slot
Keys	1 power keys, 2 scan keys, 2 volume (+/-) keys	1 power key, 2 scan keys, 1 multifunction key, 2 volume (+/-) keys
Camera	13M Rear Camera, 5M Front Camera	13M Rear Camera

Applicable industries

Perfect for applications in retail, logistics, warehousing, power, finance, transport, manufacturing and other industries.

Retail



Logistics



Warehousing



Power



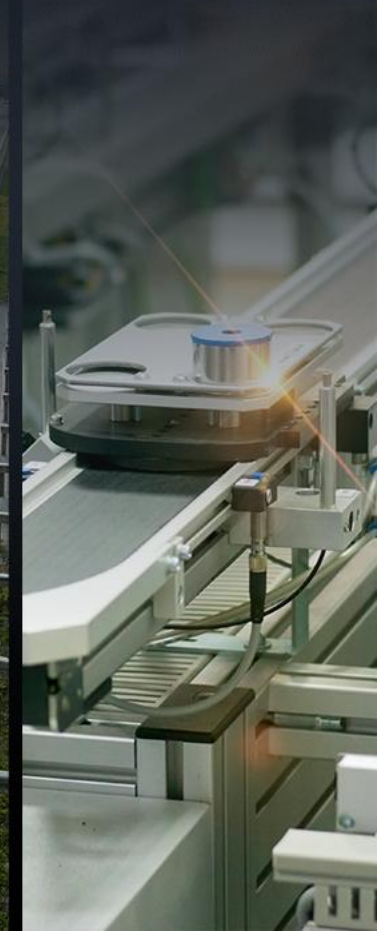
Finance



Transport



Manufacturing



Chainway MC21

MC21

Minicomputer with keyboard



Chainway MC21

Ultra-lightweight Design

- Overall dimensions: 186.6 x 66.7 x 24.3mm
Total weight: main body 287g (including battery)
3.5 inch, 480 x 800
Full keyboard + left and right scan keys, easy to operate



Chainway MC21

Powerful configuration

- Android 10
- Cortex-A53 Octa-core, 2.0 GHz
- RAM+ROM: 2GB + 16GB / 3 GB + 32GB
- Wireless transmission: 4G, dual-band WIFI, Bluetooth 5.0



Chainway MC21

Powerful data acquisition capabilities

- High-performance barcode scanning with optional Zebra SE4710/ CB300/ CM60, users can pick according to their needs.
NFC to meet a variety of application scenarios.
13M rear colour camera, supports autofocus, flashlight.



Chainway MC21

Large Capacity Battery

5000mAh large capacity removable battery,
long-lasting battery life, perfect for high-intensity
data acquisition applications.



Chainway MC21

Industrial-grade protection

The MC21 has undergone a series of reliability verifications, **IP65** rated high protection level, operates normally after **1.5m** drops from heights.

Rugged and durable, fully meets the needs of various industrial applications.



MC21 vs C61



Performance Parameters	Quad-core 2.0GHz android 10 2+16GB	Octa-core 2.0GHz 3+32GB
Dimensions	186.6mm*66.7*24.3mm	202.0mm*72.5mm*32.0mm
Weight	285g	370g
Screen	3.5 inch 480*800	4 inch 480*800
Battery	5000mAh host battery	100mAh spare battery + 6700mAh host battery
Card slots	1 Nano SIM Card slots, Either Nano SIM or TF Card slot	1 Nano SIM Card slots, Either Nano SIM or TF Card slot
Keys	2 scan keys; 29-key keyboards	2 scan keys, 2 volume keys, 1 multi-function key; 27-key / 37-key /47-key keyboard
Camera	13M Rear Camera	13M Rear camera
Operating temperature range	-20~50	-20~50 (Standard version) -30~50 (Cold chain version)

Applicable Industries

CHAINWAY®

Widely used in warehousing, logistics, retail, asset management and other industries.

Warehousing



Logistics



Retail



Asset management



Q & A Session

Thanks for watching

CHAINWAY[®]
Leading the future of smart IoT