

UHF | RAIN - Handheld Reader **CHAINWAY - C66**

- RAIN RFID (UHF EPC Class1 Gen2, ISO 18000-63) compliant
- Android 13 OS
- 5G, WiFi, Bluetooth 5.2, GPS
- Up to 2m reading range
- IP65 protection



UHF | RAIN - Handheld Reader Android 13 - Operating System

The Chainway C66 UHF | RAIN -RFID handheld is a rugged, Android-based mobile computer designed to meet the demands of industries such as logistics, warehousing, retail, and asset management. Powered by a Qualcomm Octa-core processor and equipped with a 5.5-inch HD display, it offers seamless performance for data collection and tracking applications. Featuring a built-in Impinj E510 UHF | RAIN - RFID module, the C66 provides a read range of up to 2 meters, supporting EPC C1 GEN2 and ISO18000-6C protocols. This makes it ideal for applications requiring efficient inventory management and asset tracking.

The device operates on Android 13, ensuring compatibility with a wide range of applications and seamless integration into existing IT infrastructures. With a 4420mAh removable battery, the C66 supports extended usage and quick charging via QC3.0, minimizing downtime in critical operations. Designed for durability, the C66 boasts an IP65 rating for dust and water resistance and can withstand drops from up to 1.8 meters, making it suitable for use in challenging environments.

Additional features include optional barcode scanning and a 13MP autofocus camera, enhancing its versatility for various data collection needs. The C66 also supports Wi-Fi, Bluetooth 5.1, and GPS, ensuring reliable connectivity and location tracking capabilities. Whether you're managing inventory in a warehouse, tracking assets in a retail environment, or conducting field inspections, the Chainway C66 offers the performance and durability needed to streamline operations and improve efficiency.

Common Applications

- Inventory Control
- Asset Tracking
- Predictive Maintenance
- Industrial Automation
- Defence Industry



TECHNICAL SPECIFICATIONS

UHF | RAIN

Engine	Based on Impinj E510
Operating Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Supported Standards	EPC C1 GEN2 / ISO18000-6C
RF Power	1W (30dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Antenna Gain	1 W (+5 dBm to +30 dBm adjustable)
Antenna Type	Linear Polarized Antenna (-5 dBi)
Max. Read Range	2.4m (Impinj MR6 tag, size 70 x 15mm) 2.6m (Impinj M750 tag, size 70 x 15mm) 2.7m (Alien H3 Anti-Metal tag, size 130 x 42mm)

Communication

WLAN	Support 802.11 a/b/g/n/ac/ax-ready/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4, IPV6, 5G PA;
	Fast roaming: PMKID caching, 802.11r, OKC
	Operating Channels: 2.4G(channel 1~13), 5G (channel 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136,140,144,149,153,157,161,165), Depends on local regulations
	Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK-EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS,PEAP-GTC, WPA3-Enterprise,etc.
WWAN (Europe, Asia)	2G: 850/900/1800/1900 MHz
	3G: CDMA EVDO: BC0
	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

Camera

Rear Camera	13MP Autofocus with flash
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Physical Characteristics

Dimension	160.0 x 76.0 x 15.5 / 17.0 mm (for standard version)
Weight	287 g (device with battery)
Keypad	1 power key, 2 scan keys, 2 volume keys
Battery	Main battery: removable 4420 mAh Standby: up to 490 hours Continuous use: over 12 hours (depending on user environment) Charging time: 2.5 hours (with standard AC adaptor and USB cable)
Display	5,5" IPS 1440x720
Touch Panel	Multi-touch panel, gloves and wet hands supported
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
Notification	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Card slot	1 slot for Nano SIM card 1 slot for Nano SIM or TF card
Interfaces	USB Type-C, USB 3.1, OTG, extended thimble

TECHNICAL SPECIFICATIONS

Performance Characteristics

CPU	2.0 GHz Octa-core
RAM+ROM	3GB + 32GB / 4GB + 64GB / 6GB + 128GB
Expansion	Supports up to 256 GB Micro SD card

User Enviroment

Operating Temp.	-20 °C to +50 °C
Storage Temp.	-40 °C to +70 °C
Humidity	5% RH - 95% RH (non condensing)
Drop Specification	Multiple 1.8 m drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m (falls at room temperature)
Sealing	IP65 per IEC sealing specifications, IP67 optional
ESD	±15 KV air discharge, ±8 KV conductive discharge

Drivers & Support

Operating System	Android 11/13; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 18 pending feasibility
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

Barcode Scanning (Optional)

Scan Engine	Zebra: SE4710/SE4100; Honeywell: N6603/ N6703/6803FR/HS7; IA166S; CM60;
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX),etc.

Fingerprint (optional)

Option 1 / 2	Sensor: TCS1 / TLK1NC02
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Part No. / Model

TBA	P66 UHF GUN
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