CHAINWAY®

C76
UHF RFID Reader

Android	4G	WiFi	Bluetooth	UHF	1D Barcode	2D Barcode	IRIS	NFC	Camera	GPS

Chainway C76, based on Android operating system, is newly developed to be much lighter than previous UHF RFID readers. It features powerful processor, 6600mAh battery, distant UHF RFID capability, NFC, barcode scanning, and iris recognition. This rugged device can be deployed in chain stores, retail inventory management, asset management, warehousing, fleet management, ETC, and finance.

Specification

Physical Characteristics

Dimensions	162.5*80.0*14.5mm/6.40*3.15*0.57in
Weight	540g/19.0oz
Display	5.2" IPS FHD 1920x1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 4000mAh
	Pistol battery: Li-ion, 2600mAh
	Standby: over 400 hours
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB2.0 Type-C, OTG
Audio	Speaker, microphone
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
Sensors	Gravity sensor, light sensor, proximity sensor

Performance

CPU	Cortex-A53 Quad-core 1.45GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 128 GB Micro SD card

Developing Environment

Operating System	Android 6.0
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-4°F to 122°F / -20°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
ESD	±15KV air discharge, ±6KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800MHz
	3G: 900/1900/2000/2100MHz
	4G: TDD-LTE: B38, B39, B40, B41
	FDD-LTE: B1, B3, B5
Bluetooth	Bluetooth 4.0, BLE
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna

Data Collection

Camera

Top Camera	13MP Autofocus with flash

RFID

UHF

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (3dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
	2W Optional (33dBm, for Lati America, etc.)
R/W range	＞22m (indoors); ＞8m (open outdoors)
Reading rate	＞200 tags/s

* Ranges and rates depend on tags and environment

NFC (Optional)

Frequency	13.56MHz

Barcode Scanning (Optional)

2D Imager Scanner	Honeywell N6603
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSS, etc.
2D Symbologies	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.

Front Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6，GB/T 20979-2007

Accessories (See details in Accessory Guide)

AC Adaptor

USB Cable