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 Android
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 4G
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 WiFi
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 Bluetooth
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 UHF
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 1D Barcode
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 2D Barcode
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 PSAM
- 
 NFC/HF
- 
 Fingerprint
- 
 Camera
- 
 GPS

Chainway P80 with abundant functions is an Android 9 rugged tablet. With its powerful Qualcomm CPU, 8 inch high-definition screen, 8000 mAh battery and comprehensive data capture options like UHF RFID, barcode scanning, HF RFID/ NFC, fingerprint recognition, etc., you can find this easy-to-deploy device a valuable helper to increase productivity in retail, logistics, warehousing, identity verification, meter reading, etc.



Specification

Physical Characteristics

Dimensions	250.8 x 152.0 x 15.0 mm / 9.87 x 5.98 x 0.59 in. (for standard version)
Weight	700 g / 24.69 oz. (for standard version)
Display	8" IPS LTPS 1920 x 1200 / IPS LTPS 1280 x 800
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 8000 mAh Standby: over 500 hours Continuous use: over 10 hours (depending on user environment) Charging time: 5-7 hours (with standard AC adaptor and USB cable)
Expansion Slot	1 slot for Micro SIM card, 1 slot for Micro SIM / TF card, Optional dual PSAM card slots
Interfaces	USB 2.0 Type-C, OTG
Sensors	Accelerometer sensor, geomagnetic sensor; gyroscope
Notification	Sound, LED indicator
Audio	1 microphone; 1 speaker; receiver
Keypad	1 front key, 1 volume key, 1 power key, direction key (Optional)

Performance

CPU	Qualcomm 1.8 GHz Octa-core
RAM+ROM	3 GB + 32 GB 4 GB + 64 GB (optional)
Expansion	Supports up to 128 GB Micro SD card

Developing Environment

Operating System	Android 9; GMS, 90-day security updates, Android Enterprise, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported
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 1.5 m / 4.92 ft. drops to concrete across the operating temperature range
Tumble Specification	500 x 0.5 m / 1.64 ft falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge

Communication

WLAN	Support 802.11 a/b/g/n/ac/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4, IPV6; Fast roaming: PMKID caching, 802.11r, OKC; Operating Channels: 2.4G(channel 1~13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,144,49,153,157,161,165), 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, etc.
WWAN (Europe, Asia)	2G: 850/900/1800/1900MHz, GPRS, EDGE 3G: CDMA EVDO: BC0 TD-SCDMA: B34/B39 WCDMA: B1/B5/B8 4G: TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20
WWAN(America)	3G: WCDMA: B2/B4/B5 4G: FDD-LTE: B2/B4/B5/B7/B12/B13/B17/B28A/B28B

Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

Data Collection

Camera

Rear Camera	13 MP Autofocus with flash
Front Camera	8 MP

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710 (standard) , Zebra SE4850 (optional)
1D Symbolgies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolgies	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.

RFID (Optional)

UHF

Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
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* For detailed specification, please check P80 UHF part.

NFC (Optional)

Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm

Fingerprint (Optional)

Option 1

Sensor	TCS1 / TLKINCO2
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Option 2

Sensor	Optical Morpho CBM-E3
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* For detailed specification, please check P80 Fingerprint part.

PSAM (Optional)

Card slot	2 PSAM card slots
Protocol	ISO7816

Accessories (See details in Accessory Guide)



AC Adaptor



USB Cable



Wristband



Pistol(Optional)

Notice: Product specifications are subject to change without prior notice. / Model: P80 / Update Date: 2023-07-04

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UHF 1



UHF 2



Specification

UHF 1 / 2 (Optional)

Engine	CM710-1 module based on Impinj E710 CM510-1 module based on Impinj E510 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (UHF 1, 4 dBi ; UHF 2, 3 dBi)
Power	1W (30 dBm, +5 dBm to +30 dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
R/W range	UHF 1: Up to 15 m ; UHF 2: Up to 10 m (open outdoors, Impinj MR6 tag);
Fastest Read Rate	900+ tags/sec

* Ranges and rates depend on tags and environment.

UHF 3 (Built-in UHF, optional)

Engine	CM310-1 module based on Impinj E310 CM500-1 module based on Impinj Indy R500
Frequency	865-868 MHz / 920-925 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	0 dBi
Power	1W (30 dBm, +5 dBm to +30 dBm adjustable)
R/W range	30 cm

* Ranges and rates depend on tags and environment.

Biometrics

Accurate Fingerprint Reading and Facial Recognition

FINGERPRINT TCS1 Capacitive



FINGERPRINT TLK1NC02



FINGERPRINT Optical Fingerprint



Specification

Fingerprint (Optional)

Option 1

Sensor	TCS1 Capacitive
Sensing Area (mm)	12.8 × 18.0
Resolution (dpi)	508 dpi, 8-bit greylevel
Certifications	FIPS 201, STQC
Format Extraction	ISO 19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Support by SDK
Security	AES, DES key encryption of the host communication channel

Option 2

Sensor	TLK1NC02
Sensing Area (mm)	14.0 X 22.0
Resolution (dpi)	508dpi, 256-bit greylevel
Certifications	FIPS 201, FBI
Format Extraction	ISO19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Support by SDK
Security	AES, DES key encryption of the host communication channel

Option 3

Sensor	Optical Morpho CBM-E3
Sensing Area (mm)	14 x 22
Resolution (dpi)	500 dpi, 256 greylevel
Certifications	FIPS PIV IQS / ISO 19794-4, MINEX & FIPS 201 complaint, STQC
Format Extraction	ISO 19794-2/4, WSQ, ANSI 378, etc.
Fake Finger Detection	Latex, GeLatin, Plasticine, Kapton, Transparent Film, Silicone, Rubber, Play-doh, Graphite Or Paper
Security	FIPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.