



Chainway P80 with abundant functions is an Android 13 rugged tablet. With its powerful Octa-core CPU, 8 inch high-definition screen, 8700 mAh battery and comprehensive data capture options like UHF RFID, barcode scanning, NFC, fingerprint recognition, etc., you can find this easy-to-deploy device a valuable helper to increase productivity in retail, logistics, warehousing, identity verification, etc.



Specification

Physical Characteristics

Dimensions	250.8 x 152.0 x 15.0mm /9.87 x 5.98 x 0.59 in. (for standard version)
Weight	680 g /23.99 oz. (for standard version)
Display	8" IPS LTPS 1920x 1200
Touch Panel	Corning Gorilla Glass, multi-touchpanel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 8700 mAh Standby: over 500 hours Continuous use: over 10hours (depending on user environment) Charging time: 5-7hours (with standard AC adaptor and USB cable)
Expansion Slot	1slot for Micro SIM card, 1slot for Micro SIM /TF card, Optional dual PSAM card slots
Interfaces	USB 2.0 Type-C,OTG
Sensors	Gravity sensor; gyroscope; geomagnetic sensor; light /proximity sensor
Notification	Sound, LED indicator
Audio	1microphone; 1speaker;
Keypad	1front key, 1volume key, 1power key, direction key (Optional)

Performance

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

Developing Environment

Operating System	Android 13; GMS&AER, 90-day security updates 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 1.5m /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	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	Support 802.11a/b/g/n/ac/d/e/h/i/k/r/v,2.4G/5Gdual-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, 132,136,140,144,149,153,157,161,165),Dependsonlocal 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	2G: 850/900/1800/1900MHz,GPRS, EDGE
	3G: CDMA EVDO: BC0 WCDMA: B1/B2/B5/B8
	4G: TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B28
Vo-LTE	Support Vo-LTEHD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internalantenna

Data Collection

Camera

Rear Camera	13MP Autofocus with flash
Front Camera	5 MP

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710,Honeywell HS7
1DSymbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, 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.

UHF RFID (Optional)

UHF

Frequency	865-868 MHz /920-925 MHz /902-928 MHz
-----------	---------------------------------------

*For detailed specification, please check P80 UHF part.

NFC

Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1card (S50, S70), CPU card, NFC tags, etc.
Range	0-4 cm

Fingerprint (Optional)

Option 1/ 2

Sensor	TCS1/TLK1NC02
--------	---------------

Option 3

Sensor	Optical Morpho CBM-E3
--------	-----------------------

Option 4

Sensor	ARATEK A600
--------	-------------

*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



Rugged Rubber Boot (Optional)



P80

UHF

Deliver Better-than-ever UHF Performance



Specification

UHF (Optional)

Engine	CM710-1 module based on Impinj E710
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1GEN2 / ISO18000-6C
Antenna	Circular polarization (3 dBi)
Power	1W(30 dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
R/W range	Up to 10m (open outdoors, Impinj MR6 tag);
Fastest Read Rate	900+tags/sec

*Ranges and rates depend on tags and environment.

P80

Biometrics

Accurate Fingerprint Reading and Facial Recognition

FINGERPRINT TCS1Capacitive



FINGERPRINT TLK1NC02



FINGERPRINT Optical Fingerprint



Specification

Fingerprint (Optional)

Option 1

Sensor	TCS1Capacitive
Sensing Area (mm)	12.8 x18.0
Resolution (dpi)	508 dpi, 8-bit greyscale
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)	508 dpi, 256-bit greyscale
Certifications	FIPS 201, FBI
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 3

Sensor	Optical Morpho CBM-E3
Sensing Area (mm)	14.0 x 22.0
Resolution (dpi)	500 dpi, 256 grey level
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, GeLatex, 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.

