CHAINWAY

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SMART & GREEN



P80

Industrial Tablet

Android 4G Wi-Fi Bluetooth UHF 1D Barcode 2D Barcode

PSAM NFC Fingerprint Camera GPS

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 (with the latest Impinj Gen2X), 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 15.0 mm / 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 1920 x 1200
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 8700 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	Gravity sensor; gyroscope; geomagnetic sensor; light / proximity sensor
Notification	Sound, LED indicator
Audio	1 microphone; 1 speaker;
Keypad	1 front key, 1 volume key, 1 power key, direction key (Optional)

Performance

CPU	2.0 GHz Octa-core
RAM+ROM	4 GB + 64 GB / 6 GB + 128 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 1.5 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, 132,136,140,144,149,153,157,161,165),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,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-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

Data Collection

Camera

Rear Camera	13 MP Autofocus with flash
Front Camera	5 MP

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710, Honeywell HS7
1D Symbologies	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	M1 card (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)

Notice: Product specifications are subject to change without prior notice. / Model: P80 / Update Date: 2026-01-28

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CHAINWAY

P80 UHF

Deliver Better-than-ever UHF Performance



Specification

UHF (Optional)

Engine	Based on Impinj E Series chips
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Impinj Gen2X	Supported
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization
Power	1W (30 dBm, +5 dBm to +30 dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
R/W range	Up to 10 m (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
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)	14.0 X 22.0
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.

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