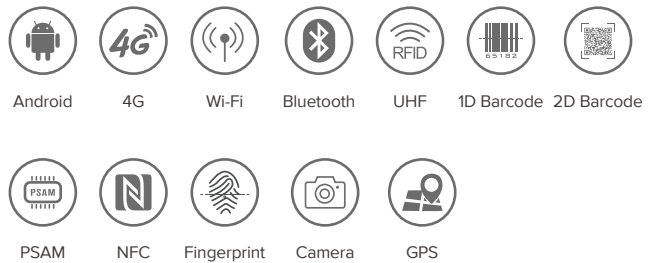


# CHAINWAY



## P80 Industrial Tablet



Chainway P80 is an Android 9 rugged tablet with abundant functions. With its powerful CPU, 8 inch high-definition screen, 8000 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, meter reading, etc.



# Specification

## Physical Characteristics

<b>Dimensions</b>	250.8 x 152.0 x 15.0 mm / 9.87 x 5.98 x 0.59 in. ( for standard version )
<b>Weight</b>	700 g / 24.69 oz. ( for standard version )
<b>Display</b>	8" IPS LTPS 1920 x 1200
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Power</b>	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)
<b>Expansion Slot</b>	1 slot for Micro SIM card, 1 slot for Micro SIM / TF card, Optional dual PSAM card slots
<b>Interfaces</b>	USB 2.0 Type-C, OTG
<b>Sensors</b>	Accelerometer sensor, geomagnetic sensor; gyroscope
<b>Notification</b>	Sound, LED indicator
<b>Audio</b>	1 microphone; 1 speaker; receiver
<b>Keypad</b>	1 front key, 1 volume key, 1 power key, direction key (Optional)

## Performance

<b>CPU</b>	Octa-core 1.8 GHz
<b>RAM+ROM</b>	3GB + 32GB / 4GB + 64GB
<b>Expansion</b>	Supports up to 256GB Micro SD (TF) card

## Developing Environment

<b>Operating System</b>	Android 9; GMS, 90-day security updates, Android Enterprise, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported
<b>SDK</b>	Chainway Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-4 °F to 122 °F / -20 °C to 50 °C
<b>Storage Temp.</b>	-40 °F to 158 °F / -40 °C to 70 °C
<b>Humidity</b>	5% RH - 95% RH non condensing
<b>Drop Specification</b>	Multiple 1.5 m / 4.92 ft. drops to concrete across the operating temperature range
<b>Tumble Specification</b>	500 x 0.5 m / 1.64 ft falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15 KV air discharge, ±8 KV conductive discharge

## Communication

<b>WLAN</b>	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.
<b>WWAN (Europe, Asia)</b>	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
<b>WWAN(America)</b>	3G: WCDMA: B2/B4/B5 4G: FDD-LTE: B2/B4/B5/B7/B12/B13/B17/B28A/B28B

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

## Data Collection

### Camera

<b>Rear Camera</b>	13 MP Autofocus with flash
<b>Front Camera</b>	8 MP

### Barcode Scanning (Optional)

<b>Scan Engine</b>	Zebra SE4710, Zebra SE4850
<b>1D Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbologies</b>	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

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

### NFC

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

## Fingerprint (Optional)

### Option 1 / 2

<b>Sensor</b>	TCS1 / TLKINC02
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### Option 3

<b>Sensor</b>	Optical Morpho CBM-E3
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\* For detailed specification, please check P80 Fingerprint part.

## PSAM (Optional)

<b>Card slot</b>	2 PSAM card slots
<b>Protocol</b>	ISO7816

## Accessories (See details in Accessory Guide)



AC Adaptor



USB Cable



Wristband

Notice: Product specifications are subject to change without prior notice. / Model: P80 / Update Date: 2025-08-04

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#### UHF 1



## Specification

### UHF 1 (Default UHF, Optional)

Engine	CM710-1 module based on Impinj E710
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.

### UHF 2 (Built-in UHF, optional)

Engine	CM310-1 module based on Impinj E310
Frequency	865-868 MHz / 920-925 MHz
Impinj Gen2X	Supported
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.