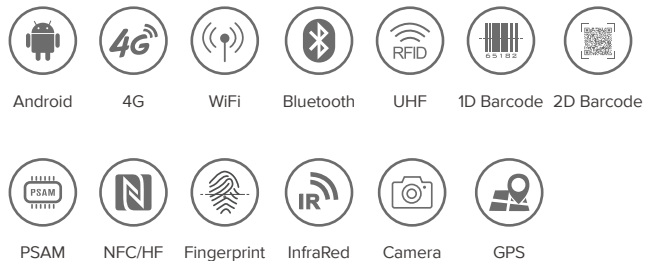


# CHAINWAY



## P80 Industrial Tablet



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

<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 / IPS LTPS 1280 x 800
<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, light sensor, proximity sensor, geomagnetic sensor, gyroscope
<b>Sensors</b>	Light sensor, proximity sensor, gravity sensor
<b>Notification</b>	Sound, LED indicator
<b>Audio</b>	1 microphone; 1 speaker; receiver

## Performance

<b>CPU</b>	Qualcomm 1.8 GHz Octa-core
<b>RAM+ROM</b>	3 GB + 32 GB 4 GB + 64 GB (optional)
<b>Expansion</b>	Supports up to 128 GB Micro SD 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>	5 MP

### Barcode Scanning (Optional)

<b>Scan Engine</b>	Zebra SE4710 (standard) , Zebra SE4850 (optional)
<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

<b>Sensor</b>	TCS1 / TCS2 Capacitive
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#### Option 2

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

### InfraRed (Reserved)

<b>Wavelength</b>	940 nm
<b>Frequency</b>	38 kHz
<b>Range</b>	Up to 4 m
<b>Protocol</b>	DLT_645-2007, DLT_645-1997

### 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



Pistol(Optional)

Notice: Product specifications are subject to change without prior notice. / Model: P80 / Update Date: 2022-03-31

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## P80

### UHF

Deliver Better-than-ever UHF Performance



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.

## P80

### Biometrics

Accurate Fingerprint Reading and Facial Recognition



FINGERPRINT  
TCS1 Capacitive

FINGERPRINT  
TCS2 Capacitive

FINGERPRINT  
Optical Fingerprint

### Specification

#### Fingerprint (Optional)

##### Option 1

Sensor	TCS1/TCS2 Capacitive
Sensing Area (mm)	12.8 x 18.0; 10.4 x 14.4
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	Optical Morpho CBM-E3
Sensing Area (mm)	14 x 22
Resolution (dpi)	500 dpi, 256 greyscale
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.