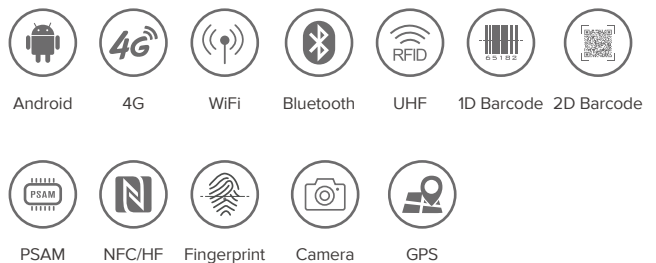


# CHAINWAY



## 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 |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Standby: over 500 hours<br>Continuous use: over 10 hours (depending on user environment)<br>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<br>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;<br>Fast roaming: PMKID caching, 802.11r, OKC;<br><br>Operating Channels: 2.4G(channel 1~13),<br>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;<br><br>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<br><br>3G: CDMA EVDO: BC0<br>TD-SCDMA: B34/B39<br>WCDMA: B1/B5/B8<br><br>4G: TDD-LTE: B34/B38/B39/B40/B41<br>FDD-LTE: B1/B3/B5/B7/B8/B20                                                                                                                                                                                                                                                              |
| WWAN(America)       | 3G: WCDMA: B2/B4/B5<br><br>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 Symbolologies            | UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.                                                                                       |
| 2D Symbolologies            | 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 |

\* 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 / TLK1NC02 |

| Option 2 |                       |
|----------|-----------------------|
| Sensor   | Optical Morpho CBM-E3 |

\* 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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# CHAINWAY

## 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<br>CM510-1 module based on Impinj E510<br>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)<br>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<br>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

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. |