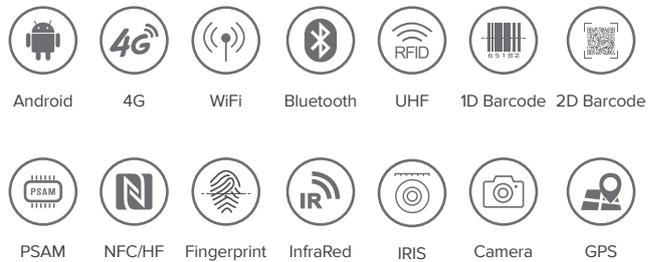




## P80 Industrial Tablet



Chainway P80 with abundant functions is an Android 7.1 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, Iris and 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>	250.8mm x 152mm x 15mm/ 9.87 x 5.98 x 0.59in(for standard version)
<b>Weight</b>	700g/24.7oz(for standard version)
<b>Display</b>	8" IPS LTPS 1920x1200
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Power</b>	Main battery: Li-ion, rechargeable, 8000mAh 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 SIM card, 1 slot for TF card, Optional PSAM card slot
<b>Interfaces</b>	USB 3.0 Type-C, OTG
<b>Audio</b>	Speaker, microphone
<b>Keypad</b>	1 front key, 1 volume key, 1 power key
<b>Sensors</b>	Gravity sensor

## Performance

<b>CPU</b>	Qualcomm 1.8GHz Octa-core / Qualcomm 2.0GHz Octa-core
<b>RAM+ROM</b>	2GB+16GB / 3GB+32GB
<b>Expansion</b>	Supports up to 128GB Micro SD card

## Developing Environment

<b>Operating System</b>	Android 7.1
<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 1.5m/4.9ft drops to concrete across the operating temperature range
<b>Tumble Specification</b>	500 x 0.5m/1.64ft falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15KV air discharge, ±8KV conductive discharge

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
	2G: 850/900/1800/1900MHz, GPRS, EDGE
	3G: CDMA EVDO:BC0
<b>WWAN</b>	TD-SCDMA: B34/B39
	WCDMA: B1/B2/B5/B8
	4G: TDD-LTE: B38/B39/B40/B41
	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28
<b>Bluetooth</b>	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, internal antenna

## Data Collection

### Camera

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

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

### NFC/HF

<b>Frequency</b>	13.56MHz
<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>	2-4cm

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

## Front Iris (Reserved)

<b>Rate</b>	<150ms
<b>Range</b>	20-40cm
<b>FAR</b>	1/10000000
<b>Protocol</b>	ISO/IEC 19794-6, GB/T 20979-2007

## PSAM (Optional)

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

## Accessories (See details in Accessory Guide)



AC Adaptor



USB Cable



Pistol(Optional)



Wristband

Notice: Product specifications are subject to change without prior notice. / Model: P80 / Update Date: 2019-04-25

**CHAINWAY**®

Shenzhen Chainway Information Technology Co., Ltd

Address: 9F, Building2, Phase 2, Gaoxingqi Industrial Park, Liuxian 1st Rd., Bao'an District, Shenzhen, Guangdong 518102, China  
Tel: 0086-755-23223316 Fax: 0086-755-23223310 Email: sales@chainway.cn Web: http://www.chainway.net

## P80

### UHF

Deliver Better-than-ever UHF Performance



## Specification

### UHF(Optional)

Engine	CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (default UHF, 3dBi ; UHF with pistol grip, 4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable)
R/W range	> 10m (open outdoors); > 25m (indoors)
Reading rate	>200 tags/s

\* 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)	12.8x18; 10.4x14.4
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)	14x22
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.