CHAINWAY



P80

Industrial Tablet

Android 4G WiFi Bluetooth UHF 1D Barcode 2D Barcode

PSAM NFC/HF Fingerprint InfraRed IRIS Camera GPS

Chainway P80 with abundant functions is an Android 7.1 / 9.0 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

Dimensions	250.8mm x 152mm x 15mm/ 9.87 x 5.98 x 0.59in(for standard version)
Weight	700g/24.7oz(for standard version)
Display	8" IPS LTPS 1920x1200
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	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)
Expansion Slot	1 slot for SIM card, 1 slot for TF card, Optional PSAM card slot
Interfaces	USB 3.0 Type-C, OTG
Audio	Speaker, microphone
Keypad	1 front key, 1 volume key, 1 power key, direction key (Optional)
Sensors	Gravity sensor

Performance

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

Developing Environment

Operating System	Android 7.1 / Android 9.0; 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 1.5m/4.9ft drops to concrete across the operating temperature range
Tumble Specification	500 x 0.5m/1.64ft falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN	2G: 850/900/1800/1900MHz, GPRS, EDGE
	3G: CDMA EVDO:BC0
	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
Bluetooth	Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou, internal antenna

Data Collection

Camera

Rear Camera	13MP Autofocus with flash
Front Camera	8MP

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710 (standard), Zebra SE4850 (optional)
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.

RFID (Optional)

UHF

Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz

* For detailed specification, please check P80 UHF part.

NFC/HF

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

Fingerprint (Optional)

Option 1

Sensor	TCS1/TCS2 Capacitive

Option 2

Sensor	Optical Morpho CBM-E3

* For detailed specification, please check P80 Fingerprint part.

InfraRed (Reserved)

Wavelength	940nm
Frequency	38kHz
Range	> 4m
Protocol	DLT_645-2007, DLT_645-1997

Front Iris (Reserved)

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

PSAM (Optional)

Card slot	2 PSAM card slots
Protocol	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: 2019-09-09

CHAINWAY®

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CHAINWAY

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)
	2W Optional (33dBm, for Lati America, etc.)
R/W range	>25m (indoors); >15m (open outdoors, Impinj MR6 tag);
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)	12.8×18; 10.4x14.4
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	Optical Morpho CBM-E3
Sensing Area (mm)	14x22
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.