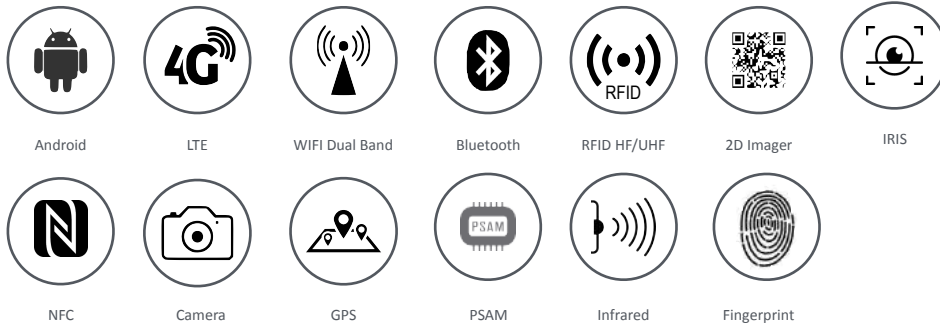


P80

8" Android Industrial Tablet



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.



P80 Specifications

Physical Characteristics

Dimensions	250,8*152*15mm
Weight	700gr
Display	8" IPS FHD 1920x1200
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 8000mAh
Expansion Slot	1 slot for SIM card, 1 slot for TF card 2 optional slots for PSAM cards (ISO7816 T=0, T=1 Protocol)
Interfaces	USB2.0 Type-C, OTG
Audio	Speaker, microphone
Keypad	1 Front Key, 1 Volume Key, 1 Power Key
Sensors	Gravity sensor

Performance

CPU	MSM8953 2GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 32 GB Micro SD card

Developing Environment

Operating System	Android 7.1
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-20°C to 50°C
Storage Temp.	-40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.2m drops to the concrete across the operating temperature range
Tumble Specification	500 x 0.5m falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±8KV air discharge, ±4KV conductive discharge

Camera

Rear Camera	13MP Autofocus with flash
Front Camera (Optional)	8MP

Barcode Scanning (Optional)

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

InfraRed (Optional)

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

Front Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/1000000

Communication

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band with internal antenna
WWAN(Europe)	2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B1, B3, B5, B7, B8, B20, B40
WWAN(America)	2G: 850/900/1800/1900MHz 3G: 850/900/1700/1900MHz 4G: B2, B4, B5, B26, B41
WWAN (China)	2G: 900/1800MHz 3G: 900/1900/2000/2100MHz 4G: TDD-LTE: B38, B39, B40, B41 FDD-LTE: B1, B3, B5
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth 4.2/4.1+HS - 4.0 - 3.0+HS - 2,1+EDR
GNSS	GPS/AGPS, GLONASS, BeiDou with internal antenna

RFID (Optional)

UHF

Frequency	865MHz-868MHz / 920MHz-925MHz / 902MHz-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	4dBi Circular Polarization
Power	1W (+5dBm to 30dBm adjustable)
Read/Write Range	> 10m (open outdoor) - >20m (indoor)
Reading Rate	> 200tags/sec
(*) Read/write Range and Reading Rates depend on tags and environments	

HF / NFC

Frequency	13.56MHz
(*) HF RFID is alternative to NFC	

Fingerprint (Optional)

Option 1

Sensor	TCS1/TCS2 Capacitive
Sensing Area (mm)	12,8*19 / 10,4*14,4
Resolution (dpi)	508dpi 8-bit greylevel
Certification	FIPS 201, STQC
Format Extraction	ISO19794, WSQ, ANSI 378, JPEG 2000
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
Certification	FIPS PIV IQS / ISO19794-4, MINEX & FIPS 201 complaint, STQC
Format Extraction	ISO 19797-2/4, WSQ, ANSI 378, etc.
Fake Finger Detection	Latex, Gelatin, Plasticine, Kapton, Transparent Film, Silicone, Rubber, Play-doh, Graphite Or Paper
Security	FPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.

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P80_EN V2.0



TechSigno srl is an independent company that build RFID system and intelligent objects for multimedia, industrial, transportation, medical, and wireless applications. Working closely with our customers, we meet the specific made-to-order demands of our customer to achieve maximum functionality, efficiency, reliability and therefore satisfaction.

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CHAINWAY®

Chainway is a leading manufacturer of rugged mobile computers and fixed data terminals in China. Founded in 2005, it headquarters in Shenzhen. For the past decade, Chainway has delivered data collection devices, including handheld RFID reader, fingerprint reader, barcode scanner and etc, to thousands of customers around the globe. We work with a worldwide network of distributors, system integrators and software developers to offer complete and professional data collection solutions to customers from a variety of areas.