

P100 AI 5G Industrial Tablet



Android 14



5G



WiFi 6



Bluetooth 5.2



PSAM



GNSS



camera



NFC



1D Barcode



2D Barcode



RFID

Advanced Configuration, Superior Performance, More Efficient User Experience

The Chainway P100 AI 5G Industrial Tablet is a high-performance rugged tablet designed for industrial-grade applications and complex working environments. Featuring an 11-inch HD display, it provides an expansive display area and sharp visual clarity, greatly enhancing on-site operational efficiency.

Preloaded with Android 14 OS, the device is powered by an advanced 5G IoT chipset and an optional high-performance octa-core 2.6GHz CPU, achieving an AnTuTu benchmark score of up to 580,000. Equipped with a 10,000mAh removable high-capacity battery, the P100 supports 27W fast charging and battery meter functionality, guaranteeing long-lasting operation. Connectivity includes Wi-Fi 6 with 2×2 MIMO antennas for high-speed data transfer, low latency communication, and seamless roaming to maintain uninterrupted connectivity during mobile operations. Additionally, the P100 integrates barcode scanning, NFC, UHF, and PSAM functionalities, providing a comprehensive application experience. Its versatility makes it suitable for industries such as retail, logistics and warehouse management, smart manufacturing, construction, healthcare, hospitality, and government public services, making it an ideal mobile terminal solution for digital transformation.



Flagship Performance & Long-Term Support

The P100 is built on a high-performance 5G IoT platform with an optional 2.6GHz octa-core processor. With an AnTuTu benchmark score of up to 580,000, it delivers exceptional computing power and multitasking capabilities for complex industrial scenarios.

The chipset platform will be available through 2030, ensuring stable supply throughout the entire product lifecycle. The device comes preloaded with Android 14 and is Google AER-certified, meeting global enterprise standards for security, system compatibility, and long-term stability. It supports continuous Android OS updates and maintenance, enabling sustainable device management and IT compliance for enterprises.

Memory configurations include a standard 4GB RAM + 64GB ROM version, and an upgraded 8GB RAM + 256GB ROM option, ensuring stable performance for large applications, data caching, and parallel multitasking. The P100 is available in both US and EMEA versions, covering global markets.

11-Inch HD Display

The P100 features an 11-inch HD display with a 1920×1200 resolution, delivering a wide visual area and fine image detail for multitasking and complex interface operations, significantly improving field productivity.

An optional 800-nit high-brightness screen ensures excellent visibility even under direct sunlight or in high-intensity industrial environments. The screen is protected with Corning® Gorilla® Glass 3, offering superior scratch resistance, impact protection, and durability against everyday wear and accidental drops.

The touchscreen supports multi-touch, wet-hand operation, and glove touch (including rubber, nylon, and cotton gloves), ensuring precise and responsive control even in challenging work environments.

Powerful Wireless Connectivity

The P100 integrates 5G, Wi-Fi 6, and Bluetooth 5.2, delivering high-reliability, low-latency wireless connectivity to meet industrial-grade demands for high-speed data, stability, and multi-device collaboration.

The 2×2 MIMO antenna architecture supports concurrent dual-stream transmission, ensuring higher data efficiency, lower latency, and stable connections even in high-interference or high-density deployment environments. Seamless Wi-Fi roaming ensures uninterrupted connectivity across zones.

With 5G, the P100 achieves faster large file downloads, remote database access, and real-time HD video transmission. Bluetooth 5.2 enhances anti-interference, lowers latency, and supports stronger multi-device connections.

Versatile Data Capture

The P100 is equipped with a 13MP rear camera (with autofocus and flash) and a 5MP front camera, supporting high-resolution image capture. An enterprise-grade barcode engine enables fast, accurate scanning of all 1D/2D barcodes, including damaged and DPM codes.

The P100 comes with built-in NFC, enabling convenient short-range wireless identification. For industries requiring advanced data collection, an optional UHF RFID version is available to maximize efficiency.

High-Capacity Battery, Fast Charging, and Hot-Swap

The P100 is powered by a 10,000mAh removable battery with hot-swap support, ensuring continuous operations without downtime. The battery meter function provides real-time monitoring of power consumption, health status, and replacement cycles, extending battery lifespan and optimizing maintenance.

Supporting 27W fast charging (9V/3A) and PPS dynamic voltage adjustment, the device delivers safe, efficient charging by intelligently adjusting voltage and current. Even in high-intensity work environments, the P100 quickly replenishes power for long-lasting stable performance.

Industrial-Grade Protection

The P100 is engineered for industrial durability and reliable operation in tough conditions. It passes the MIL-STD-810H drop test at 1.2 meters, ensuring resilience against everyday shocks and drops.

With an IP67 rating, it offers superior dustproof and waterproof protection, maintaining stable operation even in extreme environments. Whether for outdoor inspections, warehouse logistics, or industrial fieldwork, the P100 delivers reliable, long-lasting performance.

Specification

Physical Characteristics

Dimensions	263.5 x 175.0 x 13.5 mm / 10.37 x 6.89 x 0.53 in. (for standard version)
Weight	802 g / 28.29 oz. (for standard version)
Display	10.95" , 1920x1200,IPS
Touch Panel	Corning Glass, multi-touch panel, gloves and wet hands supported
Power	10000mAh removable main battery with meter Support fast charge
Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM / TF card; 1 PSAM card(Optional); eSIM compatible;
Interfaces	USB 3.0 Type-C, OTG, Support USB Type-C Digital Earphone
Sensors	G_sensor, light sensor, proximity sensor, gyroscope, geomagnetic sensor
Notification	Sound, LED indicator, vibration
Audio	2 microphone; 2 speakers
Keypad	1 scan key, 1 power key, 1 volume keys (+/-) , 2 virtual keys

Performance Characteristics

CPU	Octa-core 2.4 GHz; optional octa-core 2.6 GHz
RAM+ROM	4GB+64GB/8GB+256GB (Optional)
Expansion	Supports up to 512 GB Micro SD card

PSAM (Optional)

Card slot	1 PSAM card slots
Protocol	ISO7816

Data Collection

Camera	
Rear Camera	13 MP Autofocus with flash; optional 16MP
Front Camera	5 MP
Barcode Scanning	
Scan Engine	Zebra SE4100, SE55;CM60
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, JapanPostal, Dutch Postal (KIX), etc.
NFC	
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

Communication

WLAN	Support 802.11 a/b/g/n/ac/ax, 2.4G/5G dual-band, 2 * 2 MIMO antennas
WWAN (Europe, Asia)	2G: GSM: B2/B3/B5/B8 CDMA 1XEVDO BC0, BC1
	3G: WCDMA: B1/B2/B5/B8
	4G: TDD LTE : B34/B38/B39/B40/B41(2496-2690)/B42/B43 FDD LTE : B1/B2/B3/B4/B5/B7/B8/B20/B28full/B66
	5G: SA N1/N3/N5/N7/N8/N20/N28/N38/N41(PC2)/N66 /N77/N78/N79
WWAN (America)	2G: GSM: B2/B3/B5/B8 CDMA 1XEVDO BC0, BC1
	3G: WCDMA: B1/B2/B4/B5
	4G: TDD LTE : B38/B41(2496-2690) FDD LTE: B1/B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71
	5G: SA N2/N5/N7/N12/N13/N25/N26/N29/N38/N41/N48 /N66/N70/N71/N77/N78
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth V5.2, support Bluetooth headset
GNSS	GPS, BeiDou, GLONASS, Galileo; AGPS support; Dual-frequency positioning (L1 + L5)

Developing Environment

Operating System	Android 14
SDK	Chainway Software Development Kit
Tool	Java
Language	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	Passed 1.2-meter drop test compliant with MIL-STD-810H military standard
Sealing	IP67 per IEC sealing specification; IP68/IP69K available upon request
ESD	±15 KV air discharge, ±8 KV conductive discharge

Accessories

Standard	Power adapter, USB data cable
Optional	Wrist strap, shoulder strap, protective case, charging dock, etc.

Extended Models

P100 Integrated UHF AI 5G Industrial Tablet



Specification(*Specifications not listed are the same as the standard P100)

Dimensions	263.5 mmx 175.0 mmx23mm/10.37 × 6.89 × 0.91 in
Weight	883g/31.14 oz (with battery)
NFC	No NFC function

RFID UHF (built-in)

Engine	Based on Impinj E-Series chip
Frequency	865-868 MHz/920-925 MHz/902-928 MHz (custom-design for frequency band)
Impinj Gen2X	Supported
Protocol	EPC global Class 1 Gen 2/ISO18000-63 RFID
Transmit Power	0.5W
Antenna	Circularly polarized antenna
Max Read Range	3 m (with Impinj M750 tag)

Notice: Product specifications are subject to change without prior notice. / Model: P100 / Update Date: 2025-11-05