CHAINWAY®

P100S Industrial Tablet

Android14 | 4G | WiFi 5 | Bluetooth5.2 | PSAM | GNSS | camera | NFC | 1D Barcode | 2D Barcode | RFID

Advanced Configuration, Superior Performance, More Efficient User Experience

The Chainway P100S 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 4G IoT chipset , achieving an AnTuTu benchmark score of up to 500,000. Equipped with a 10,000mAh removable high-capacity battery, the P100S supports 27W fast charging and battery meter functionality, guaranteeing long-lasting operation. Connectivity includes Wi-Fi 5 for high-speed data transfer, low latency communication, and seamless roaming to maintain uninterrupted connectivity during mobile operations.Additionally, the P100S 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.

Powerful Wireless Connectivity

P100S is equipped with Wi-Fi 5 and Bluetooth 5.2, delivering comprehensive, high-reliability, and low-latency wireless connectivity to fully meet the demanding requirements of industrial applications for high speed, stability, and multi-device collaboration.

In terms of wireless LAN, the P100S supports fast and seamless Wi-Fi roaming, ensuring uninterrupted network connectivity even during cross-zone mobile operations. Compared with previous generations, Bluetooth 5.2 offers superior anti-interference performance, lower communication latency, and stronger support for concurrent multi-device connections.

Versatile Data Capture

The P100S 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 P100S 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.

Flagship Performance & Long-Term Support

The P100S is built on a high-performance 4G IoT platform . With an AnTuTu benchmark score of up to 500,000, 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 4 + 64GB version, and an upgraded 8 + 256GB option, ensuring stable performance for large applications, data caching, and parallel multitasking.

11-Inch HD Display

The P100S 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.

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

The P100S 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 P100S 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 P100S 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	2.2 GHz Octa-core
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
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, 2.4G/5G dual-band； Supports fast roaming; WI-FI 6E（Optional）；
WWAN	2G: GSM:B2/B3/B5/B8
	3G: WCDMA:B1/B2/B4/B5/B8
	4G： TDD LTE :B34/B38/B39/B40/B41 190M FDD LTE :B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B20/B28ab
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth V5.2, support Bluetooth headset
GNSS	GPS, BeiDou, GLONASS, Galileo; AGPS support;

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 specifications
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

P100S Integrated UHF Industrial Tablet

Specification(*Specifications not listed are the same as the standard P100S)

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: P100S / Update Date: 2025-11-05

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