

P100

AI · 5G · Industrial Tablet

Advanced Configuration, Superior Performance,
More Efficient User Experience



The Chainway P100 is a high-performance rugged tablet built for demanding industrial environments. Featuring an 11-inch HD display, it balances expansive visuals with operational efficiency. Running Android 14 and powered by an advanced 5G IoT chipset with an optional 2.6GHz octa-core CPU, the P100 achieves AnTuTu benchmark scores of up to 580,000. Its 10,000mAh removable battery supports 27W fast charging to ensure long-lasting field operation.

Connectivity is optimized with Wi-Fi 6 and 2x2 MIMO, providing high-speed data transfer and seamless roaming. For versatile data capture, the P100 integrates barcode scanning, NFC, UHF, and PSAM functionalities. This all-in-one terminal is an ideal solution for digital transformation across retail, logistics, manufacturing, healthcare, and public services.



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.

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 2x2 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 enables 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.

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.

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 10,000 mAh 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	263.5×175.0×13.5mm / 10.37×6.89 ×0.53in. (for standard version)	
	Weight	802g / 28.29oz. (for standard version)	
	Display	10.95", 1920×1200, IPS	
	Touch Panel	Corning Glass, multi-touch panel, gloves and wet hands supported	
	Power	10,000 mAh 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 key (+/-) , 2 virtual keys	
Performance Characteristics	CPU	Octa-core 2.4GHz; optional octa-core 2.6GHz	
	RAM+ROM	4GB+64GB / 8GB+256GB (Optional)	
	Expansion	Supports up to 512GB Micro SD card	
PSAM Optional	Card slot	1 PSAM card slots	
	Protocol	ISO7816	
Data Collection	Camera	Rear Camera	13MP Autofocus with flash; optional 16MP
		Front Camera	5MP
	Barcode Scanning	Scan Engine	Zebra SE4100, SE55; CM60
		1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
		2D Symbolologies	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	13.56MHZ
		Protocol	ISO14443A/B, ISO15693 , NFC-IP1, NFC-IP2, etc.
		Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
		Range	2-4cm
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 BCO, 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 BCO, 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-810 Hmilitary standard
	Sealing	IP67 perIEC sealing specifications
	ESD	±15KV air discharge, ±8KV 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)

Physical Characteristics	Dimensions	263.5×175.0×23.0mm / 10.37×6.89×0.91in.
	Weight	883g / 31.14oz. with battery)
	NFC	No NFC function
RFID UHF (built-in)	Engine	Based on Impinj E-Series chip
	Frequency	865-868MHz / 920-925MHz / 902-928MHz (custom-design for frequency band)
	Impinj Gen2x	Supported
	Protocol	EPC global Class1 Gen 2 / ISO18000-63 RFID
	Transmit Power	0.5W
	Antenna	Circularly polarized antenna
	Max Read Range	3m (with Impinj M750 tag)