

P100S

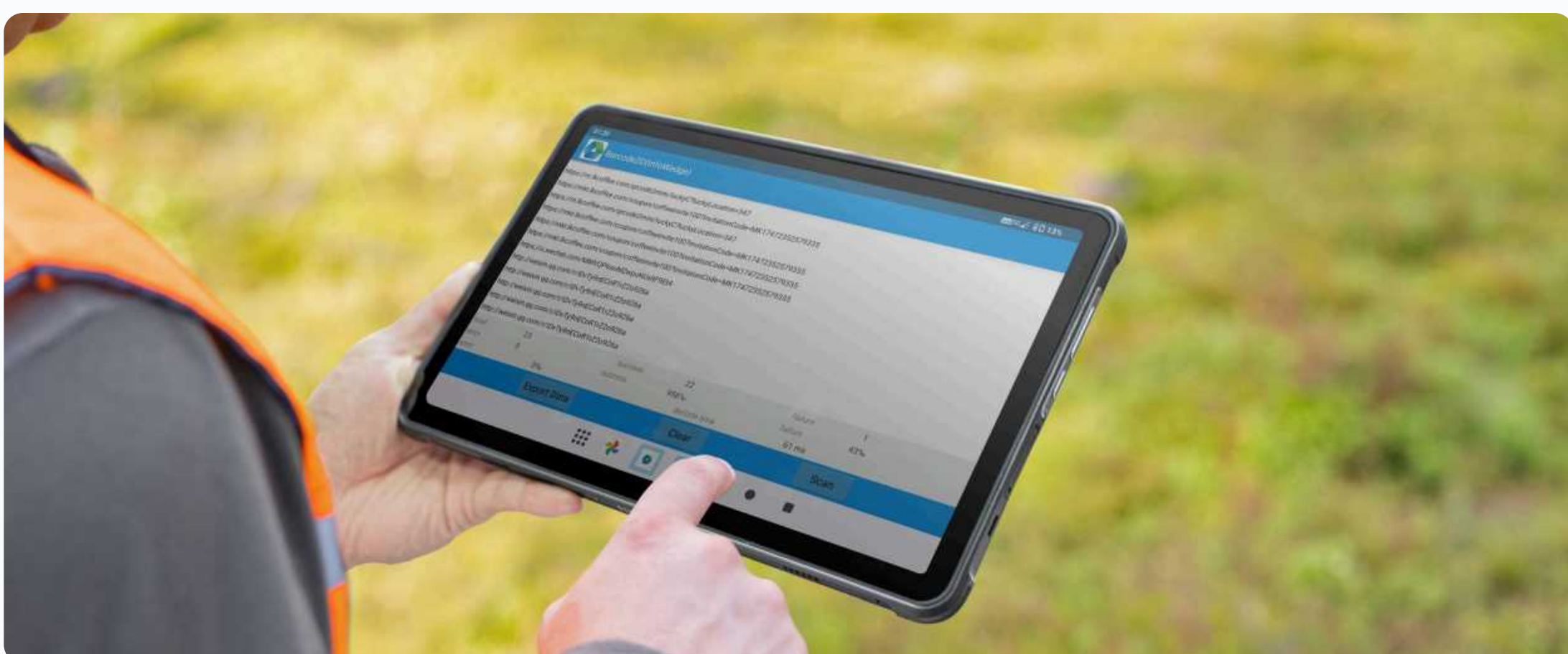
Enterprise Device

Advanced Configuration, Superior Performance,
More Efficient User Experience



The Chainway P100S is a high-performance enterprise device built for demanding industrial environments. Its 11-inch HD display provides superior clarity and an expansive workspace for enhanced on-site efficiency. Running Android 14 on an advanced 4G IoT chipset, the device achieves AnTuTu benchmark scores of up to 500,000. It features a 10,000mAh removable battery with 27W fast charging and battery meter functionality to ensure uninterrupted operation.

Connectivity is enabled by Wi-Fi 5, delivering high-speed data transfer and seamless roaming. The P100S further integrates barcode scanning, NFC, UHF, and PSAM, offering a comprehensive data capture solution. This versatile terminal is ideal for digital transformation across retail, logistics, manufacturing, healthcare, and public services.



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 **4GB + 64GB version**, and an **upgraded 8GB + 256GB option**, ensuring stable performance for large applications, data caching, and parallel multitasking.

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.

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.



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.



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 dust proof 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	263.5×175.0×13.5mm / 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	2.2GHz Octa-core	
	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
		Front Camera	5MP
	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	13.56MHZ
		Protocol	ISO14443A/B, ISO15693 , NFC-IP1, NFC-IP2, etc.
		Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
		Range	2-4cm
	WLAN	Support 802.11 a/b/g/n/ac, 2.4G / 5G dual-band; Supports fast roaming; WI-FI 6E (Optional) ;	
Communication	WWAN	2G: GSM:B2/B3/B5/B8	
		3G: WCDMA: B1/B2/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-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.

* P100S models being manufactured for the Indonesian Market, do not include Voice Call (Phone Call) function. WAN module included on those models only support DATA transfer.

Extended Models

P100S

Integrated UHF Enterprise Device



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

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Notice: Product specifications are subject to change without prior notice. | Model: P100S | Version: V2.0