

C5E

Handheld RFID Reader

Upgraded Configuration, Superior Performance,
Stable Wireless, Streamlined Experience



The Chainway C5E is an enhanced 4G large-screen smart handheld built for frontline productivity. It combines strong computing, fast wireless connectivity, and versatile data capture in one device. Featuring a high-performance processor and a 6" HD display (FHD optional), it supports 4G, Wi-Fi 6-ready, and Bluetooth 5.0 to deliver reliable, high-speed connections in high-density and complex environments. The C5E supports UHF RFID based on Impinj chip and is compatible with the Impinj Gen2X protocol, it delivers higher read sensitivity and stronger tag processing performance. The C5E also supports barcode scanning and NFC, making it ideal for retail, warehousing & logistics, and asset management-helping enterprises boost efficiency with a stable, intelligent workflow.

Interference-Resistant, Stable Connectivity

The C5E integrates 4G, Wi-Fi 6-ready, and Bluetooth 5.1 to deliver fast, low-latency, and stable wireless connectivity. It ensures reliable communication in device-dense or high-interference environments, minimizing dropouts and lag. Seamless Wi-Fi roaming supports continuous connectivity during cross-zone transitions-ideal for high-intensity workflows.

Versatile Data Capture for Diverse Industries

The C5E supports a wide range of data capture functions to meet the operational needs of different industries. It is equipped with a 13MP rear camera with flash and a 5MP front camera, enabling clear image capture for accurate on-site documentation and detail recording. An integrated enterprise-grade barcode scanning engine ensures fast and accurate reading of various 1D and 2D barcodes, including damaged labels and DPM codes, delivering high read rates in challenging environments. The C5E also supports high-performance bulk RFID tag reading through standard UHF RFID functionality, helping improve data collection efficiency. Optional NFC enables short-range wireless identification applications, further enhancing operational flexibility and convenience.

Flagship Performance with Enduring Support

Powered by Qualcomm's 4G IoT platform with long lifecycle support, the C5E features a 2.0GHz CPU to handle complex multitasking with ease. It ships Android 16 with Google AER certification, ensuring robust security, compatibility, stability, and long-term OS support. Standard RAM+ROM is 4GB+64GB, with optional 6GB+128GB, 8GB+128GB, and 8GB + 256GB configurations, catering to diverse requirements.

6" HD Display, Durable & Multi-Touch

A 6" HD display (1440 X720) provides sharp, high-definition visuals, with an optional FHD+ (2160X1080) upgrade for finer detail and a more immersive viewing experience. Corning Gorilla Glass 3 provides enhanced resistance to scratches and impacts. The touchscreen supports multi-touch, wet-hand operation, and glove use (e.g., rubber, nylon, or cotton gloves), enabling efficient operation in industrial environments, outdoor fieldwork, and other demanding scenarios.

Large Battery, Fast Charge, Hot-Swap, Nonstop Work

Equipped with a high-capacity 7,000 mAh removable battery, the C5E supports QC3.0 fast charging for rapid power recovery. A built-in backup battery enables hot-swapping, allowing battery replacement without powering down the device and ensuring uninterrupted operation. With an integrated fuel gauge and intelligent power management, users can monitor power consumption and battery health in real time, supporting continuous operation across multiple shifts and demanding work scenarios.

Industrial-Grade Protection for Harsh Environments

Designed for industrial durability, the C5E delivers reliable performance in demanding working conditions. The device withstands repeated impacts, having passed 26 drops from a height of 1.5 meters, ensuring long-term operational stability in daily use. With an IP65-rated enclosure, the C5E is protected against dust and water ingress, maintaining stable operation in harsh environments. This rugged design ensures reliable performance across outdoor inspections, warehousing and logistics, and industrial field operations.

Specification

Physical Characteristics	Dimensions	178.8x96.5 x 128.4 mm/7.04 X 3.80 X 5.06 in.		
	Weight	626 g/ 22.08 oz. (device with battery)		
	Display	6" display, 720*1440; optional 1080*2160 FHD+ version		
	Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet-hand operation supported		
	Battery	7,000 mAh removable pistol battery, with meter; Support QC 3.0 and hot-swap		
	Card slot	1 for SIM card, 1 for SIM or TF card; Supports eSIM (optional)		
	Interfaces	USB 2.0, Type-C, with OTG; Bottom contacts: 2-pin for charging		
	Sensor	G_sensor, light sensor, proximity sensor, geomagneticsensor, gyro/accelerometer combo sensor		
	Notification	Sound, LED indicator, vibration		
	Audio	1 microphone, 1 speaker, 1 receiver		
Keypad	1 power key, 2 scan keys, 1 volume(+/-) key,1 multifunctional key			
Performance	CPU	Octa-core,2.0 GHz		
	RAM+ROM	UFS: standard:4GB+64GB; optional: 6GB+128GB; 8GB+128GB; 8GB+256GB		
	Expansion	Supports up to 256GB Micro SD (TF) card (Supports Extreme Micro SD Card 512GB)		
Communication	WLAN	Supports 802.11 a/b/g/n/ac/ax-ready;fast roaming supported;		
	WWAN (Global)	2G : GSM(850/900/1800/1900)		
		3G : WCDMA (B1/B2/B4/B5/B8)		
		4G : LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B26/B28A/B28B; LTE-TDD:B34/38/B39/B40/B41		
	Vo-LTE	Supports Vo-LTE HD video and voice calls		
	Bluetooth	Bluetooth 5.1, headset support		
GNSS	GPS, BeiDou, GLONASS, and Galileo; A-GPS supported			
PSAM(Optional)	Card slot	Dual PSAM cards supported; ISO7816 compliant		
Data Collection	Camera	Rear Camera	13MP, Autofocus with flash	
		Front Camera	5MP	
	Barcode Scanning (Optional)	2D Scanner	Zebra SE4710; CM60; CB300T	
		1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved2 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		
RFID UHF	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		
	Output Power	1W (30dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)		
	Fastest Read Rate	1300+ tags/sec		
	Max Read Range	30m (Impinj MR6 tag, size 70 x 15mm) 32m (Impinj M750 tag, size 70x 15mm) 33m (Alien H3 Anti-Metal tag, size 130 x42mm)		
Read rates tested in low-interference lab; distances measured outdoors in open.Actual results may vary with environment and tags.				

Developing Environment	Operating System	Android 16
	SDK	Chainway Software Development Kit
	Language	Java
	Tool	Eclipse/Android Studio
Environmental	Operating Temperature	-4°F to 122°F(-20°C to 50°C)
	Storage Temperature	-40°F to 158°F (-40°C to 70°C)
	Humidity	5%RH - 95%RH non condensing
	Drop Specification	Passed 1.5-meter (4.92 ft) drop test compliant with MIL-STD-810 Hmilitary standard
	Tumble Specification	1000 x 0.5m/1.64ft. falls, IEC compliant
	Sealing	IP65
	ESD	±15kV air discharge, ±8kV contact discharge
Accessories	Standard	Power adapter, USB cable
	Optional	Charging cradle (Standard /Advanced),rugged rubber boot, etc.

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Notice: Product specifications are subject to change without
prior notice. | Model: C5E | Version: V2.0