

C5E

Handheld RFID Reader

Upgraded at the Core. Ready for More.

Chainway C5E is an upgraded UHF RFID handheld terminal powered by Android 16 and a Qualcomm octa-core platform, with memory configurations up to 8GB + 256GB to provide a stable and efficient foundation for multitasking and demanding enterprise applications. Built on the Impinj E Series RFID platform with Impinj Gen2X support, C5E delivers enhanced RFID performance with read ranges of up to 33 meters and speeds of up to 1,300+ tags per second, making it well suited for long-range identification and high-volume inventory counting. Integrated multi-sensor capabilities, combined with compatible management software, further enable precise item finding for more efficient inventory and asset management. With a 6-inch HD display, 7,000mAh removable hot-swappable battery, IP65 protection, and 1.5-meter drop resistance compliant with MIL-STD-810H, C5E is designed for efficient and reliable mobile operations across retail, warehousing and logistics, manufacturing, asset management, and more.

Built for Demanding Work.

A 6-inch HD display, optional FHD+ resolution, and Corning Gorilla Glass 3 provides added protection against scratches and impacts, while multi-touch, wet-hand, and glove operation support enables convenient use across different working environments. With IP65 dust and water resistance and 1.5-meter drop resistance compliant with MIL-STD-810H, C5E is built to withstand the demands of warehousing, logistics, manufacturing, outdoor operations, and other challenging enterprise environments.



New Platform. Enhanced Performance.

Powered by a Qualcomm octa-core 2.0GHz platform and Android 16, C5E delivers improved processing performance while providing a more up-to-date system foundation for enterprise applications. With UFS high-speed storage and configurations up to 8GB RAM + 256GB ROM, the device provides ample performance and storage for multitasking, complex business applications, and data-intensive workflows, while offering flexible configuration options for different project requirements.

Longer Range. Faster Reads.

Built on the Impinj E Series RFID platform with Impinj Gen2X support, C5E delivers enhanced read range, speed, and tag processing capabilities. It achieves read ranges of up to 33 meters and speeds of up to 1,300+ tags per second, enabling efficient data capture for long-range identification, dense tag environments, and high-volume inventory counting. From warehouse inventory and retail stock management to asset identification, C5E helps reduce time spent on repetitive scanning and searching, allowing users to complete RFID-intensive tasks faster and more efficiently.

Read. Locate. Find.

C5E integrates multiple sensors, including a gyroscope, accelerometer, and geomagnetic sensor, combining RFID reading with motion and directional information. When used with compatible management software, these capabilities can support precise item finding, helping users narrow down the search area and locate target items more efficiently among large numbers of RFID-tagged objects. From high-speed bulk reading to locating specific inventory or assets, C5E extends RFID functionality beyond inventory counting to support faster and more precise item-finding workflows.

Hot-Swap. Keep Working.

A 7,000mAh removable battery with QC3.0 fast charging and hot-swap support allows battery replacement without shutting down the device, helping maintain continuous operation during long shifts.

Specification			
Physical Characteristics	Dimensions	178.8 x 96.5 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 x 1440; optional 1080 x 2160 FHD+ version	
	Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet-hand operation supported	
	Battery	7,000 mAh removable pistol battery, optional smart battery; 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, geomagneticssensor, 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: 4GB + 64GB; up to 8GB + 256GB optional	
	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	13.56MHz
		Protocol	ISO14443A/B,ISO15693,NFC-IP1,NFC-IP2, etc.
		Chips	M1 card (S50, S70), CPU card, NFC tags, etc
		Range	2-4cm
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.

CHAINWAY

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Notice: Product specifications are subject to change without
prior notice. | Model: C5E | Version: V3.0