

# RFID Handheld Reader CER790

Century's latest RFID Handheld Reader (CER790) is a high-performance UHF RFID device designed for efficient data capture. Equipped with powerful UHF read/write capabilities, it delivers enhanced sensitivity for faster and more accurate data collection. The CER790 improves operational efficiency across a wide range of RFID applications, including asset tracking, apparel inventory management, warehousing, and logistics.

## Features

- ▶ Android 11 OS - Optimized for enterprise applications
- ▶ Long-Range RFID Performance - Reads tags up to 20 m
- ▶ Expandable Storage - Supports up to 256 GB
- ▶ Rugged IP67 Design - Reliable operation in tough environments
- ▶ Swappable Battery - Supports 24/7 continuous operation



## Physical Specifications

|                           |                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                       | Octa-core 2.0 GHz                                                                                                                                                                            |
| Operating System          | Android 11.0                                                                                                                                                                                 |
| Memory                    | 4GB + 64 GB (Optional: 8 GB + 128 GB)                                                                                                                                                        |
| SIM Port                  | SIM+TF<br>Optional: PASM*1 (Micro SIM card)                                                                                                                                                  |
| Expansion Slot            | Micro SD Card, up to 256 GB                                                                                                                                                                  |
| Interface / Communication | Waterproof USB Type-C interface, USB 2.0 high-speed, supports OTG                                                                                                                            |
| Buttons                   | Power, Volume (+/-), UHF, Scan, Custom Button, Handle Trigger                                                                                                                                |
| Display Screen            | 5.5" screen, 1440 (H) × 720 (W)                                                                                                                                                              |
| Camera                    | 13 MP rear camera + 5 MP front camera                                                                                                                                                        |
| Power Supply              | Battery Capacity: 11,700 mAh (Main unit 5,000 mAh + Handle 6,700 mAh, replaceable)<br>Charging: Bottom USB Type-C port, supports QC3.0 fast charging with intelligent PC/charger recognition |
| Dimensions                | 170 (H) × 80 (W) × 132.7 (T) mm                                                                                                                                                              |
| Weight                    | 630 g (Battery included)                                                                                                                                                                     |
| Operating Temperature     | -20°C to +50°C                                                                                                                                                                               |
| Storage Temperature       | -40°C to +60°C (with battery)<br>-40°C to +70°C (without battery)                                                                                                                            |
| Relative Humidity         | 5%-95% RH, non-condensing                                                                                                                                                                    |
| Sealing                   | IP67                                                                                                                                                                                         |
| Drop Resistance           | 2 m                                                                                                                                                                                          |
| ESD                       | ±15 kV Air Discharge, ±8 kV Contact Discharge                                                                                                                                                |



## Technical Specifications

|                                |                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN Protocol                  | IEEE 802.11 a/b/g/n/ac/ax                                                                                                                                                                                                                                                                       |
| WLAN Frequency                 | Depends on country/region<br>2.4 GHz: 2.412-2.472 GHz<br>5 GHz: 5.180-5.825 GHz                                                                                                                                                                                                                 |
| WWAN Frequency (North America) | GSM: Quad Band (850 / 900 / 1800 / 1900 MHz)<br>WCDMA: Band 2, Band 4, Band 5, Band 8<br>TDD-LTE: Band 38, Band 39, Band 41<br>FDD-LTE: Band 2, Band 4, Band 5, Band 7, Band 8, Band 12, Band 13, Band 17, Band 25, Band 26, Band 66, Band 71                                                   |
| WWAN Frequency (Europe / Asia) | GSM: Quad Band (850 / 900 / 1800 / 1900 MHz)<br>WCDMA: Band 1, Band 2, Band 5, Band 8<br>CDMA: BCO EVDO<br>TD-SCDMA: Band 34, Band 39<br>LTE: Band 1, Band 3, Band 5, Band 7, Band 8, Band 20, Band 28, Band 34, Band 38, Band 39, Band 40, Band 41<br>Carrier Aggregation (CA): B1+B3, B39+B41 |
| NFC Protocols (Optional)       | ISO15693, ISO14443 A/B (without encryption)                                                                                                                                                                                                                                                     |
| NFC Frequency (Optional)       | 13.56 MHz                                                                                                                                                                                                                                                                                       |
| 2D Image Capture Resolution    | 1280 x 1080 pixels                                                                                                                                                                                                                                                                              |
| 2D Image Capture Frame Rate    | 60fps                                                                                                                                                                                                                                                                                           |
| Supported Barcode Symbologies  | 1D: UPC/EAN, Code 128, GS1-128, Code 39, Code 93, Code 11, Matrix 2 of 5, Interleaved 2 of 5, Codabar, MSI, etc.<br>2D: PDF417, MicroPDF417, Data Matrix, MaxiCode, QR Code, MicroQR, Aztec, etc.                                                                                               |
| RFID Protocol                  | EPCglobal Class 1 Gen 2 / ISO 18000-6C                                                                                                                                                                                                                                                          |
| Antenna Parameters             | 5 dBiC circular polarization, default 902-928 MHz                                                                                                                                                                                                                                               |
| Operating Frequency            | 840-960MHz (customizable per national/regional regulations), default: 902-928MHz                                                                                                                                                                                                                |
| Operating Mode                 | Frequency Hopping Spread Spectrum (FHSS) or fixed frequency                                                                                                                                                                                                                                     |
| Output Power                   | 1-33 dBm                                                                                                                                                                                                                                                                                        |
| Read Range                     | ≥10 m @ Impinj H47 (actual distance depends on tag and environment)                                                                                                                                                                                                                             |
| Write Range                    | 0-6 m @ 9662 white label (actual distance depends on tag and environment)                                                                                                                                                                                                                       |
| Multi-tag Reading Speed        | Up to 1300 tags/sec @ Impinj H47 (actual performance depends on tag and environment)                                                                                                                                                                                                            |
| Read Speed                     | Average 12 ms per 32-bit word                                                                                                                                                                                                                                                                   |
| Write Speed                    | Average 60 ms per 32-bit word                                                                                                                                                                                                                                                                   |
| Power Consumption              | Average Power: < 8 W                                                                                                                                                                                                                                                                            |

## Accessories

|                      |                                                                            |
|----------------------|----------------------------------------------------------------------------|
| Standard Accessories | Power Adapter x1<br>Type-C Data Cable x1                                   |
| Optional Accessories | Single-Slot Charging Cradle<br>Four-Slot Battery Charger<br>Handle Battery |