

HANDHELD & BLUETOOTH RFID READERS

U510-B Pocket Bluetooth UHF RFID Reader for EPC Gen2 Tags

The U510-B is a pocket Bluetooth UHF RFID reader for staff who check EPC Gen2 (ISO 18000-6C) labels and tags on the move. It reads tags at 0–50 cm, depending on the tag, and types the tag ID into an app on iOS, Android or Windows over Bluetooth or a 2.4G USB dongle.

- UHF in the pocket housing — same one-button body as the H510-B card reader, but it reads ISO 18000-6C / EPC Gen2 tags instead of cards.
- 0–50 cm read range — depending on the tag, enough to check a single labeled item without picking it up.
- Keyboard-type output — pairs over Bluetooth without a PIN and types the tag ID into any app; no driver or SDK needed.
- Adjustable output string — 8-digit hex by default, 10-digit decimal or 10-digit hex selectable, prefix/suffix up to 4 bytes, Enter appended.
- Built-in 1000 mAh battery — 5 V charging, 100 mA working current, -20 °C to +70 °C operating range.



General	
Model	U510-B
Form factor	Pocket handheld reader with one button
Frequency	915 MHz (UHF)
Housing colors	White or black with blue trim

Cards & reading	
Protocol	ISO 18000-6C / EPC Class 1 Gen 2
Supported tags	ISO 18000-6C / EPC Gen2 UHF tags, labels and cards
Read mode	Read-only (tag ID)
Read range	0–50 cm (depends on tag)
Read time	< 100 ms
Read interval	0.5 s

Interface & output	
Wireless	Bluetooth (pairs without PIN); 2.4G wireless USB dongle
Output format	8-digit hex (default); 10-digit decimal or 10-digit hex selectable
Prefix / suffix	Up to 4 bytes
Terminator	Enter (default)
Host systems	Windows, iOS, Android
Driver	None required (keyboard-type input)
Setup tool	PC format-setting utility

Physical & environment	
Battery	Built-in Li-ion, 1000 mAh
Charging voltage	5 V
Working current	100 mA
Standby time	Up to 1 year
Operating temperature	-20 °C to +70 °C

Works with

- ✓ ISO 18000-6C / EPC Gen2 UHF labels, cards and tags: tag ID read at 0–50 cm
- ✓ iOS, Android and Windows hosts over Bluetooth; PCs through the 2.4G USB dongle
- ✓ Apps that accept keyboard input: inventory and asset apps, spreadsheets, web forms

Not designed for

- ✗ Writing or encoding UHF tags: use the U120-U desktop reader/writer
- ✗ 13.56MHz NFC / MIFARE cards: use the H510-B
- ✗ Reading tags several meters away: see the U550-M (0–3 m)
- ✗ Control from your own app through an SDK: none is documented for this model

OEM / ODM options (confirmed per order)

- ◆ Output preset to your system: 8-digit hex, 10-digit decimal or 10-digit hex
- ◆ Versions for UHF bands other than the stated 915 MHz: availability for your destination country confirmed in your quotation
- ◆ Bluetooth device name shown during pairing set to your brand, on request
- ◆ Prefix and suffix of up to 4 bytes added to every read, set before shipment
- ◆ Housing color: white or black, both with blue trim

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Specifications describe the standard version and may change without notice. Read range depends on the card or tag, mounting and environment. Pricing, configuration, lead time and terms are confirmed in your quotation.