

HANDHELD & BLUETOOTH RFID READERS

H510-B Bluetooth RFID Card Reader, 13.56MHz NFC / 125kHz, Pocket

The H510-B is a pocket Bluetooth RFID card reader for staff who check cards on tablets, phones or laptops instead of a desk PC. It reads MIFARE Classic and NTAG cards at 20–60 mm and types the card number into any app over Bluetooth or a 2.4G USB dongle. The L510-B version reads 125kHz EM4100 cards.

- No app to install — pairs over Bluetooth without a PIN and types the card number at the cursor on iOS, Android, Windows 7 and Windows 10.
- Two wireless links — Bluetooth for phones and tablets, or a 2.4G USB dongle for PCs; stable Bluetooth range is stated as 10 m.
- Choose the card band — the H510-B reads 13.56MHz MIFARE Classic 1K/4K and NTAG203/213; the L510-B reads 125kHz EM4100/TK4100 cards.
- Output set for your software — 8-digit hex plus Enter by default; 10-digit decimal, 10-digit hex and other formats can be set.
- Pocket size — 90 × 50 × 22 mm and 50 g, with a built-in 1000 mAh Li-ion battery charged at 5 V.
- Clear feedback — a buzzer and four LEDs show power, Bluetooth connection and each successful read.



General	
Model	H510-B (versions: L510-B, Q510-B)
Form factor	Pocket handheld reader with one button, four LEDs and buzzer
Frequency	13.56 MHz (H510-B); 125 kHz (L510-B)
Housing colors	White or black with blue trim

Cards & reading	
Standard	ISO/IEC 14443A (H510-B); EM4100 (L510-B)
Supported cards	MIFARE Classic 1K (S50), MIFARE Classic 4K (S70), NTAG203, NTAG213 (H510-B); EM4100 / TK4100 (L510-B)
Read mode	Read-only (card UID / ID number)
Read range	20–60 mm (depends on card type)
Read time	< 100 ms
Read interval	0.5 s
RF data rate (13.56 MHz)	106 kbit/s
Barcode symbologies (Q510-B)	1D: UPC-A, UPC-E, EAN-8, EAN-13, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Matrix 2 of 5 and others; 2D: QR Code, Data Matrix and others

Interface & output	
Wireless	Bluetooth (pairs without PIN); 2.4G wireless USB dongle
Bluetooth range	Stable up to 10 m
USB port	Charging only (no data)
Output format	8-digit hexadecimal (default); 10-digit decimal, 10-digit hex and other formats configurable
Terminator	Enter (default)
Host systems	iOS, Android, Windows 7, Windows 10
Driver	None required (keyboard-type input)

Ordering versions

H510-B — 13.56 MHz — MIFARE Classic S50/S70, NTAG203/213

L510-B — 125 kHz — TK4100 / EM4100 ID cards

Q510-B — RFID + 1D/2D barcode scanning; availability and RFID band confirmed in your quotation

OEM / ODM options (confirmed per order)

- ◆ Output format preset before shipment on request: 8-digit hex, 10-digit decimal, 10-digit hex or another format your software expects
- ◆ Housing color: white or black, both with blue trim

Physical & environment	
Battery	Built-in Li-ion, 1000 mAh
Charging voltage	5 V
Working current	100 mA
Standby time	Up to 1 year
Dimensions	90 × 50 × 22 mm
Package size	142 × 90 × 61 mm
Weight	50 g (150 g packed)
Operating temperature	-20 °C to +70 °C

Works with

- ✓ 13.56MHz MIFARE Classic 1K (S50) and 4K (S70) cards, NTAG203 and NTAG213 tags: UID read (H510-B)
- ✓ 125kHz EM4100 / TK4100 ID cards (L510-B version)
- ✓ iPhone and iPad (iOS), Android phones and tablets, Windows 7 and Windows 10 PCs
- ✓ Any app that accepts keyboard input: POS, membership and attendance software, spreadsheets, web forms

Not designed for

- ✗ Writing or encoding cards (read-only reader)
- ✗ Reading card sector data or NDEF content: only the card number is output
- ✗ Card data over the USB cable: the cable charges the battery only
- ✗ UHF EPC tags: use the U510-B in the same pocket housing
- ✗ 134.2kHz animal microchips: use the A520-M

- ◆ Card band: 13.56MHz (H510-B) or 125kHz (L510-B); an RFID plus barcode version (Q510-B) confirmed in your quotation
- ◆ Bluetooth device name shown during pairing set to your brand, on request

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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.