

13.56MHZ NFC & HF RFID READERS

H150-R 13.56MHz RS232 MIFARE Desktop Reader with Card Recess, DB9

The H150-R is a read-only 13.56MHz RS232 reader in the angled classic desktop housing with a card recess. It reads MIFARE Classic 1K/4K, NTAG203 and NTAG213 UIDs at up to 80 mm and sends them over a DB9 serial connection at 9600 bps, 8-N-1, with a documented STX/ETX frame for parsing.

- DB9 and USB-A on one cable — serial data on a DB9 connector, plus a USB-A plug for the reader's 5 V DC supply (100 mA).
- 9600 bps, 8-N-1 default — 19,200 and 115,200 bps are also selectable for hosts that run faster ports.
- Checksum-verified frames — STX (0x02), length, card type, 5-byte serial number, BCC and ETX (0x03), alongside the plain 10-digit decimal default.
- Card recess — angled 110 × 80 × 26 mm housing, about 175 g, so the card lies in a fixed position during a transaction.
- MIFARE Classic and NTAG213 — UIDs read in under 200 ms at up to 80 mm.



General	
Model	H150-R
Frequency	13.56 MHz
Form factor	Angled desktop reader with card recess
Housing	ABS
Color	Black

Cards & reading	
Standard	ISO/IEC 14443A (UID read only)
Supported cards	MIFARE Classic 1K (S50), MIFARE Classic 4K (S70), NTAG203, NTAG213, other ISO 14443A cards (UID)
Read range	Up to 80 mm (depends on card and environment)
Read time	< 200 ms
Read interval	< 0.5 s

Interface & output	
Interface	RS232, DB9 connector
Serial settings	9600 bps, 8-N-1 (default); 19,200 or 115,200 bps selectable
Default output	10-digit decimal card UID
Serial frame	STX (0x02), length, card type, serial number (5 bytes), BCC, ETX (0x03)
Custom output	Custom output format on request
Host systems	Windows XP, Vista, 7, 10; Linux

Physical & environment	
Dimensions	110 × 80 × 26 mm
Weight	Approx. 175 g
Cable	DB9 serial connector + USB-A plug, 1450 mm
Power	5 V DC, 100 mA
Indicators	Red and green LED, buzzer
Operating temperature	-10 °C to +70 °C
Storage temperature	-20 °C to +80 °C
Humidity	< 90 % RH

Works with

- ✓ MIFARE Classic 1K (S50) and MIFARE Classic 4K (S70) cards (UID read)
- ✓ NTAG203 and NTAG213 tags; other ISO 14443A cards (UID read)
- ✓ PCs, kiosks and controllers with an RS232 (DB9) port, or a USB-to-RS232 adapter
- ✓ Windows XP, Vista, 7 and 10; Linux

Not designed for

- ✗ Writing, encoding or copying cards (read-only reader)
- ✗ Typing into forms like a keyboard: use the H110-U
- ✗ ISO 15693 ICODE tags: use the H155-U
- ✗ MIFARE DESFire / Plus, ISO 14443B and FeliCa cards (not in the supported list)
- ✗ 125kHz EM4100 cards: use the L150-R in the same housing

OEM / ODM options (confirmed per order)

- ◆ Output set before shipment on request: plain 10-digit decimal, framed message or another custom format
- ◆ Same housing with USB (H150-U) or 125kHz RS232 (L150-R) electronics
- ◆ Baud rate of 19,200 or 115,200 bps instead of the 9600 bps default
- ◆ Private-label marking and packaging for OEM orders, confirmed in your quotation

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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.