

13.56MHZ NFC & HF RFID READERS

H110-R 13.56MHz RS232 MIFARE Card Reader, Slim Pad, DB9 Serial

The H110-R is a read-only 13.56MHz slim desktop reader with an RS232 (DB9) interface, for kiosks, controllers and industrial PCs that take card data from a serial port. It reads MIFARE Classic 1K/4K, NTAG203/213 and other ISO 14443A UIDs at up to 80 mm and sends them at 9600 bps, 8-N-1.

- RS232 on a DB9 connector — 9600 bps, 8 data bits, no parity, 1 stop bit by default, with 19,200 and 115,200 bps also selectable.
- Plain serial device — any application or controller that opens a COM port can read it, with no reader-specific driver.
- Documented serial frame — STX (0x02), length, card type, serial number, BCC checksum and ETX (0x03), so software can verify each read.
- MIFARE and NTAG213 — MIFARE Classic 1K (S50), 4K (S70), NTAG203 and NTAG213 UIDs, read in under 200 ms at up to 80 mm.
- 10 mm slim pad — 106 × 68 × 10 mm and about 150 g, with a 1450 mm cable.



General	
Model	H110-R
Frequency	13.56 MHz
Form factor	Slim desktop card pad with RS232 cable
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	106 × 68 × 10 mm
Weight	Approx. 150 g
Cable length	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)
- ✓ Hosts with an RS232 (DB9) COM port, or a USB-to-RS232 adapter
- ✓ Windows XP, Vista, 7 and 10; Linux; controllers and embedded boards with an RS232-level serial input

Not designed for

- × Writing, encoding or copying cards (read-only reader)
- × Typing into applications like a keyboard: use the H110-U
- × Wiegand access controllers: see the H410-W, the 13.56MHz version on the L410-W wall-reader page
- × MIFARE DESFire / Plus, ISO 14443B, FeliCa and ISO 15693 cards (not in the supported list)
- × 125kHz EM4100 cards: use the L110-R

OEM / ODM options (confirmed per order)

- ◆ Output style set before shipment on request: plain 10-digit decimal, framed message or another custom format
- ◆ USB keyboard version in the same slim pad: H110-U; 125kHz RS232 version: L110-R
- ◆ 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.