

13.56MHZ NFC & HF RFID READERS

H120-U 13.56MHz USB NFC Reader,
Flat Desktop Pad for MIFARE Cards

The H120-U is a read-only 13.56MHz USB reader in a flat matte desktop pad, for reception, membership and POS counters. It reads MIFARE Classic 1K/4K and NTAG203 UIDs at up to 80 mm, types them as 10-digit decimal numbers without a driver, and shares its housing with the 125kHz L120-U and the UHF U120-U.

- One pad, three bands — the flat housing is shared with the 125kHz L120-U and the UHF U120-U, so counters with different card types can use identical-looking hardware.
- Keyboard output, no driver — the card UID is typed at the cursor in POS, membership or spreadsheet software.
- 10-digit decimal default — the 4-byte UID as a 10-digit number, with custom formats set before shipment.
- Mini-USB socket — the 1400 mm cable unplugs from the reader for tidy routing under a counter.
- Up to 80 mm range — read time under 200 ms, with a red/green LED and buzzer to confirm each read.



General	
Model	H120-U
Frequency	13.56 MHz
Form factor	Flat matte desktop pad
Housing	ABS
Color	Black

Interface & output	
Interface	USB, keyboard emulation (driver-free); mini-USB socket on reader
Default output	10-digit decimal card UID (4 bytes)
Custom output	Custom output format on request
Operating systems	Windows XP, Vista, 7, 10; Linux; Android (via USB OTG)

Cards & reading	
Standard	ISO/IEC 14443A (UID read only)
Supported cards	MIFARE Classic 1K (S50), MIFARE Classic 4K (S70), NTAG203, 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

Physical & environment	
Dimensions	104 × 68 × 10 mm
Weight	Approx. 140 g
Cable length	1400 mm
Power	5 V DC, USB bus-powered
Indicators	Red LED (standby), green LED (read success), 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) membership and staff cards (UID read)
- ✓ NTAG203 tags and other ISO 14443A cards (UID read)
- ✓ Windows XP, Vista, 7 and 10; Linux; Android through a USB OTG adapter
- ✓ POS, membership, loyalty and attendance software that accepts keyboard input

Not designed for

- × Writing, encoding or copying cards (read-only reader)
- × Bank or payment cards: this is not a payment terminal
- × MIFARE DESFire / Plus, ISO 14443B, FeliCa and ISO 15693 cards (not in the supported list)
- × 125kHz EM4100 / TK4100 cards: use the L120-U in the same housing

OEM / ODM options (confirmed per order)

- ◆ Custom output format set before shipment on request, for example 8-digit hex or reversed byte order
- ◆ Private-label marking and packaging for OEM orders, confirmed in your quotation
- ◆ Same flat housing for 125kHz (L120-U) and UHF (U120-U) for mixed card estates

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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.