

USB-C / OTG PHONE RFID READERS

H220-C USB-C 13.56MHz NFC Reader for Android Phones, MIFARE UID

The H220-C is a 35 × 35 mm plug-in NFC reader for Android phones and tablets with a USB-C port and OTG support. It reads the UID of MIFARE Classic, NTAG203 and other ISO 14443A cards at 0–30 mm and types it as a 10-digit decimal number into whatever app has the cursor.

- No app to build — the card number is typed at the cursor, so web forms, spreadsheets and your existing Android app receive it as text.
- 13.56MHz reading for devices without NFC — adds MIFARE and NTAG UID reading to Android tablets, phones and handhelds that have a USB-C port and USB OTG support but no NFC chip.
- ISO/IEC 14443A UID reading — MIFARE Classic 1K (S50), MIFARE Classic 4K (S70), NTAG203 and other 14443A cards.
- Familiar number format — 10-digit decimal (4 bytes) by default, the same default as our H110-U USB desktop reader; other formats on request.
- Powered by the phone — 5 V, 100 mA from the USB-C port, so there is no battery to charge.
- Pocket size — 35 × 35 × 7 mm without the plug and about 20 g, in black or white.



General	
Model	H220-C
Frequency	13.56 MHz
Form factor	Plug-in reader with USB-C plug, for phones and tablets
Color	Black or white

Cards & reading	
Standard	ISO/IEC 14443A (UID read)
Supported cards	MIFARE Classic 1K (S50), MIFARE Classic 4K (S70), NTAG203, other ISO 14443A cards
Read/write	Read-only (UID)
Read range	0–30 mm front and back, 0–10 mm from the side
Read time	0.2 s
Read interval	0.5 s

Interface & output	
Interface	USB Type-C plug (USB OTG)
Output	Keyboard emulation: card number typed at the cursor
Default format	10-digit decimal (4 bytes)
Custom format	On request
Host systems	Android with USB OTG; Windows XP / 7 / 10 through an OTG adapter
App or SDK	None required on Android

Physical & environment	
Power	5 V, 100 mA from the host
Indicator	2-color LED (blue: power, green: status)
Dimensions	35 × 35 × 7 mm (without plug)
Weight	Approx. 20 g
Package	71 × 71 × 19 mm, approx. 50 g packed
Operating temperature	-20 °C to +70 °C

Works with

- ✓ MIFARE Classic 1K (S50) and 4K (S70) cards and key fobs (UID read)
- ✓ NTAG203 and other ISO/IEC 14443A cards (UID read)
- ✓ Android phones and tablets with a USB-C port and USB OTG support
- ✓ Windows XP / 7 / 10 PCs through an OTG adapter

Not designed for

- ✗ Writing, encoding or copying cards (read-only UID reader)
- ✗ Reading MIFARE sector data or NDEF content
- ✗ 125kHz EM4100/TK4100 cards — use the L220-C
- ✗ MIFARE DESFire / Plus, ISO 14443B, FeliCa and ISO 15693 (not listed for this model)
- ✗ iPhone and iPad (iOS not listed) — the H510-B Bluetooth reader lists iOS

OEM / ODM options (confirmed per order)

- ◆ Output format other than the default 10-digit decimal (for example hex) on request, set before shipment
- ◆ Logo and private-label packaging on request; feasibility and terms confirmed in your quotation
- ◆ Housing color: black or white

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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.