

125KHZ RFID READERS

L120-U 125kHz USB RFID Reader, Flat Desktop Pad, EM4100/TK4100

The L120-U is a flat, matte 125 kHz desktop reader for reception desks, attendance points and membership counters where staff enter card numbers into existing software. It reads EM4100 and TK4100 cards and fobs at up to 80 mm and types a 10-digit decimal number over USB, with no driver to install.

- Front-desk friendly — a flat matte pad with the status LED and cable exit on the same top edge.
- Cards and key fobs — EM4100, TK4100 and SMC4001 IDs, the 125 kHz chips common in membership and building fobs.
- Types at the cursor — works as a USB keyboard, so the card number lands in any open field with nothing to install.
- Quick queue handling — read time under 200 ms and a read interval under 0.5 s.
- 1400 mm cable — ends in a standard USB-A plug for PCs and POS terminals.



General	
Model	L120-U
Frequency	125 kHz
Form factor	Flat matte desktop pad with USB cable
Housing	ABS
Color	Black

Cards & reading	
Supported cards	EM4100, TK4100, SMC4001 and EM4100-compatible cards and key fobs
Card operation	Read-only (card ID number)
Read range	Up to 80 mm (depends on card and environment)
Read time	< 200 ms
Read interval	< 0.5 s

Interface & output	
Interface	USB, keyboard emulation
Driver	Not required
Default output	10-digit decimal card number
Output options	Custom output format on request
Operating systems	Windows XP / Vista / 7 / 10, Linux, Android
Indicators	Red/green LED (red = standby, green = card read) and buzzer

Physical & environment	
Dimensions	104 × 68 × 10 mm
Weight	Approx. 140 g
Cable length	1400 mm
Power supply	5 V DC, USB bus-powered
Operating temperature	-10 °C to +70 °C
Storage temperature	-20 °C to +80 °C
Humidity	< 90 % RH

Works with

- ✓ EM4100, TK4100 and SMC4001 125 kHz cards
- ✓ EM4100-compatible key fobs
- ✓ Windows XP, Vista, 7 and 10
- ✓ Linux and Android hosts with USB keyboard support

Not designed for

- × Writing or copying cards (read-only reader)
- × 13.56 MHz MIFARE and NFC cards — use the H120-U
- × UHF tags — use the U120-U in the same flat housing
- × Capturing reads when no input field has focus

OEM / ODM options (confirmed per order)

- ◆ Card-number format preset on request, e.g. 8-digit hex or reversed byte order
- ◆ RS232 version in the same flat housing (L120-R)
- ◆ Private-label marking and packaging — scope confirmed in your quotation
- ◆ Enter or no suffix after the card number, set before shipment
- ◆ Same housing for 13.56 MHz (H120-U) and UHF (U120-U) readers

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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.