

125KHZ RFID READERS

L150-R 125kHz RS232 Desktop RFID Reader with Card Recess

The L150-R is the RS232 version of our angled 125 kHz desktop reader. The card recess keeps card presentation consistent, and each EM4100 or TK4100 read is sent to a DB9 serial port at 9600 bps by default, framed by STX and ETX. It suits kiosks, terminals and PC services that listen on a COM port.

- RS232 over DB9 — the cable set has a DB9 female connector for the host's serial port.
- 9600 bps default — 19200 and 115200 bps are selectable.
- STX/ETX framing — each read arrives as one message from 0x02 to 0x03.
- Card recess — the angled 110 × 80 × 26 mm body shows users where to place the card.
- Up to 80 mm range — EM4100, TK4100 and SMC4001 cards and fobs in under 200 ms.
- Status feedback — red LED on standby, green LED and buzzer on a good read.



General	
Model	L150-R
Frequency	125 kHz
Form factor	Angled desktop reader with card recess, RS232 (DB9) and USB cable set
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	RS232, DB9 connector
Baud rate	9600 bps (default); 19200 / 115200 bps selectable
Default output	10-digit decimal card number
Frame	Starts with STX (0x02), ends with ETX (0x03)
Output options	Custom output format on request
Host	PC or controller with an RS232 (DB9) serial port
Indicators	Red/green LED (red = standby, green = card read) and buzzer

Physical & environment	
Dimensions	110 × 80 × 26 mm
Weight	Approx. 175 g
Cable length	1450 mm
Power supply	5 V DC
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 and key fobs
- ✓ Windows or Linux hosts with an RS232 COM port
- ✓ Background services and kiosk software that read a serial port

Not designed for

- ✗ Writing, encoding or copying cards (read-only reader)
- ✗ 13.56 MHz MIFARE and NFC cards — use the H150-R
- ✗ Keyboard-style typing into a text field — use the L150-U
- ✗ Wiegand door controllers — use the L410-W

OEM / ODM options (confirmed per order)

- ◆ Baud rate preset (9600, 19200 or 115200 bps) on request
- ◆ Custom card-number format within the serial frame on request
- ◆ USB keyboard version in the same housing (L150-U)
- ◆ 13.56 MHz RS232 version (H150-R) for MIFARE sites
- ◆ Private-label marking and packaging — scope 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.