

UHF RFID DESKTOP READERS

U140-U Compact UHF RFID Desktop Reader/Writer, USB, EPC Gen2

The U140-U is a compact black USB reader/writer for EPC Gen2 (ISO 18000-6C) UHF tags, suited to back-office stations that encode and verify tags one at a time. It writes tags at up to 0.2 m, reads them at up to 0.5 m and sends tag data as USB keyboard input by default.

- Compact black pad — a 15 mm thick housing with a light ring, meant for a back-office desk rather than a customer-facing counter.
- Writes up to 0.2 m — encodes ISO 18000-6C / EPC Gen2 tags close to the pad and reads them back at up to 0.5 m.
- Keyboard output by default — read results go straight into the active field; a virtual serial port build is available on request.
- Adjustable radio — RF power from 12.5 to 26 dBm and FHSS or fixed-frequency operation, both set by software.
- Shares the A140-U housing — the same compact enclosure as our 134.2 kHz animal-tag desktop reader.



General	
Model	U140-U
Product type	UHF RFID desktop reader/writer
Form factor	Compact desktop pad with light ring
Color	Black

Tags & reading	
Frequency	902–928 MHz (US band) or 920–925 MHz (China band); other regional bands on request
Air protocol	ISO 18000-6C / EPC Class 1 Gen 2
Supported tags	EPC Gen2 UHF tags (read and write)
Read range	Up to 0.5 m (depends on RF power, tag and environment)
Write range	Up to 0.2 m (depends on RF power, tag and environment)

Radio	
Antenna	Built-in 2 dBi circularly polarized antenna
RF output power	12.5–26 dBm, software adjustable
Frequency hopping	FHSS or fixed frequency, set by software
Operating modes	Active mode and passive mode; answer mode available but not recommended

Interface & output	
Interface	USB
Default output	Keyboard emulation (USB HID)
Optional build	USB virtual serial port (customized version)
Power	5 V DC from USB

Physical & environment	
Thickness	15 mm
Operating temperature	-20 °C to +55 °C
Storage temperature	-40 °C to +85 °C

Works with

- ✓ ISO 18000-6C / EPC Class 1 Gen 2 UHF labels, cards and inlays (read and write)
- ✓ Keyboard input into any focused field (default build)
- ✓ COM-port host software, through the USB virtual serial port build (on request)

Not designed for

- × 134.2 kHz FDX-B and 125 kHz EMID animal tags — use the A140-U in the same housing
- × 125 kHz and 13.56 MHz cards — see the 125kHz and 13.56MHz NFC readers
- × Writing tags from keyboard output alone (keyboard output only carries data into the host)
- × Connecting to an Android phone — use the U220-C USB-C UHF reader

OEM / ODM options (confirmed per order)

- ◆ USB virtual serial port build for software-driven encoding, on request
- ◆ RF output preset within 12.5–26 dBm so that blank tags nearby stay out of the field, on request
- ◆ Your logo on the black top cover and private-label packaging, confirmed in your quotation
- ◆ Frequency band for the destination market: 902–928 MHz, 920–925 MHz or other regional bands on request
- ◆ Operating mode (active or passive) preset to suit your host software, on request

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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.