

UHF RFID DESKTOP READERS

U160-U UHF RFID Desk Reader/Writer, USB, EPC Gen2, Square Housing

The U160-U is a square USB desk reader/writer for EPC Gen2 (ISO 18000-6C) UHF tags, with the largest top surface of our four UHF desktop models at 107 × 107 mm. It reads up to 0.5 m, writes up to 0.2 m, comes in 902–928 MHz or 920–925 MHz builds and types tag data as a USB keyboard.

- Widest top in the UHF desktop range — the 107 × 107 × 24 mm square housing gives a clear place to set down a card, label or tagged item.
- Two standard bands — 902–928 MHz (US band) or 920–925 MHz (China band), with other regional bands on request.
- EPC Gen2 read/write — reads ISO 18000-6C tags at up to 0.5 m and writes them at up to 0.2 m through host software.
- FHSS or fixed channel — frequency hopping or a single fixed frequency, selected by software.
- USB keyboard output — tag data goes into any focused field; virtual serial port output is a customized build.



General	
Model	U160-U
Product type	UHF RFID desktop reader/writer
Form factor	Square desk reader
Color	Black with silver frame

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	
Dimensions	107 × 107 × 24 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 tags on cards, labels and tagged items (read and write)
- ✓ Applications that accept keyboard input — the default build types tag data at the cursor
- ✓ Serial-port host software, with the virtual serial port build (on request)
- ✓ 902–928 MHz and 920–925 MHz band builds; other regional bands on request

Not designed for

- ✗ Gate, lane or doorway reading at several meters — the U610-M integrated reader covers 0–5 m
- ✗ Walk-around stock counts — see the U520-M handheld UHF reader
- ✗ 125 kHz and 13.56 MHz cards (UHF tags only)
- ✗ Wiegand, RS232 or RS485 connection to a controller (USB only)

OEM / ODM options (confirmed per order)

- ◆ Regional band build for your market: 902–928 MHz and 920–925 MHz as standard, other bands on request
- ◆ RF output power preset within 12.5–26 dBm to match the size of the check-in zone, on request
- ◆ Fixed-frequency operation or frequency hopping (FHSS) preset before shipment, on request
- ◆ USB virtual serial port build in place of keyboard output, 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.