

UHF INTEGRATED LONG-RANGE READERS

U630-M 9 dBi UHF Integrated RFID Reader, 0–6 m, Rated to -40 °C

The U630-M is a 9 dBi integrated UHF RFID reader for outdoor vehicle and gate lanes, including cold sites: it is rated to operate from -40 °C to +65 °C. It reads EPC Gen2 tags at 0–6 m (up to 10 m in high-power mode) and reports over Wiegand 26/34, RS232/RS485, USB or, on the U630-N, TCP/IP.

- Rated from -40 °C to +65 °C — built for cold outdoor sites, with storage from -45 °C to +95 °C.
- 0–6 m, up to 10 m — a 9 dBi antenna and 0–30 dBm RF power cover a full vehicle lane.
- Timed or external-trigger reading — scan at a set interval, or read only when the trigger input sees a loop detector or photo-beam.
- Tag issuing demos — the software package has a test demo plus automatic tag-writing and tag-reading demos for issuing tags before installation.
- Slim 42 mm panel — 257 × 257 × 42 mm and 1.45 kg, with four mounting studs on the rear plate for the pole or wall bracket.
- Wiegand 26/34 plus serial — Wiegand to the controller, RS232/RS485 or USB to software, TCP/IP on the U630-N.



General	
Model	U630-M (N-type) / U630-N (E-type with TCP/IP)
Product type	UHF RFID reader with integrated antenna
Frequency	902–928 MHz or 865–868 MHz, specified at order; other bands on request
Air interface	ISO 18000-6C, EPC Class 1 Gen 2
Antenna	Built-in, 9 dBi
RF output power	0–30 dBm, software adjustable

Tags & reading	
Supported tags	ISO 18000-6C / EPC Gen2 passive UHF tags (read and write)
Read range	0–6 m; up to 10 m in high-power mode (depends on tag and site)
Read speed	< 6 ms average per 64-bit single-tag read
Read mode	Timed automatic reading or external-trigger reading, set by software
Trigger input	1

Interface & output	
Interfaces, U630-M	Wiegand, RS232, RS485, USB
Interfaces, U630-N	Wiegand, RS232, RS485, TCP/IP, USB
Wiegand formats	Wiegand 26 / 34
Serial / USB data	Format set in the configuration software
SDK and software	Sample code in C#, Visual C++, VB, Java and Delphi; test demo; automatic tag-writing and tag-reading demos

Ordering versions

U630-M — N-type: Wiegand 26/34, RS232/RS485, USB

U630-N — E-type: adds TCP/IP Ethernet (Wiegand 26/34, RS232/RS485, TCP/IP, USB)

OEM / ODM options (confirmed per order)

- ◆ 902–928 MHz or 865–868 MHz build; other UHF bands on request
- ◆ Read mode, read interval and RF power pre-set to your site values before shipment, on request
- ◆ Private label on the product label and carton, on request

Physical & environment	
Dimensions	257 × 257 × 42 mm
Weight	1.45 kg (2.45 kg packed)
Power supply	DC 12 V, 3 A
Operating temperature	-40 °C to +65 °C
Storage temperature	-45 °C to +95 °C
Mounting	Pole (40–60 mm diameter) or wall bracket; mounting height above 1.8 m
Color	White

Works with

- ✓ ISO 18000-6C / EPC Gen2 passive UHF tags: windshield tags, cards, labels and hard tags
- ✓ Access and parking controllers with a Wiegand 26 or 34 input
- ✓ External devices such as loop detectors or photo-beams on the trigger input
- ✓ PC software over RS232, RS485 or USB via the SDK; server software over TCP/IP (U630-N)

Not designed for

- × 125 kHz or 13.56 MHz cards — see 125kHz readers and 13.56MHz readers
- × Controllers that need Wiegand 98 — the U610-M lists it
- × Active (battery-powered) tags
- × Writing tags over Wiegand — use the demo or SDK over serial, USB or TCP/IP

Henrium · henrium.com · sales@henrium.com

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.