

UHF INTEGRATED LONG-RANGE READERS

U610-M UHF Integrated RFID Reader, 7 dBi, 0–5 m, Wiegand/RS485/USB

The U610-M is a compact UHF RFID reader with a built-in 7 dBi antenna for single lanes, doorways and dock doors where the read zone should stay short. It reads EPC Gen2 tags at 0–5 m (up to 8 m in high-power mode) and outputs Wiegand 26/34/98, RS232/RS485 or USB from a 215 × 215 mm panel.

- Short, controlled read zone — 0–5 m with suitable EPC Gen2 tags, up to 8 m in high-power mode, with RF power adjustable from 0 to 30 dBm.
- Controller-ready output — Wiegand 26, 34 or 98 goes straight to an access or parking controller, while RS232, RS485 and USB serve PC software.
- Fast single-tag reads — under 6 ms on average per 64-bit read, and up to 140 single-tag reads per second.
- Continuous or triggered reading — read all the time, or only when the trigger input receives a signal from a device such as a vehicle loop detector.
- Lightest panel in the series — 215 × 215 × 50 mm and 0.8 kg, for pole or wall mounting on a bracket.
- SDK for read/write — sample code in C#, Visual C++, VB, Java and Delphi, plus a demo for reading, writing and issuing tags.



General	
Model	U610-M (N-type) / U610-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, 7 dBi
RF output power	0–30 dBm, software adjustable
Frequency mode	Frequency hopping or fixed frequency, set by software

Tags & reading	
Supported tags	ISO 18000-6C / EPC Gen2 passive UHF tags (read and write)
Read range	0–5 m; up to 8 m in high-power mode (depends on tag and site)
Read speed	< 6 ms average per 64-bit single-tag read
Single-tag identification rate	Up to 140 reads/s
Read mode	Continuous (active) or triggered (passive), set by software
Trigger input	1
Indicator	Buzzer

Interface & output	
Interfaces, U610-M	Wiegand, RS232, RS485, USB
Interfaces, U610-N	Wiegand, RS232, RS485, TCP/IP, USB
Wiegand formats	Wiegand 26 / 34 / 98
Serial / USB data	Format set in the configuration software
SDK and software	Sample code in C#, Visual C++, VB, Java and Delphi; test demo; tag read/write and issuing demo

Ordering versions

U610-M — N-type: Wiegand 26/34/98, RS232/RS485, USB

U610-N — E-type: adds TCP/IP Ethernet (Wiegand 26/34/98, RS232/RS485, TCP/IP, USB)

OEM / ODM options (confirmed per order)

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

Physical & environment	
Dimensions	215 × 215 × 50 mm
Weight	0.8 kg (1.8 kg packed)
Power supply	DC 9–12 V
Operating temperature	-20 °C to +70 °C
Mounting	Pole or wall bracket
Color	White

Works with

- ✓ ISO 18000-6C / EPC Gen2 passive UHF tags: labels, cards, windshield tags and hard tags
- ✓ Access and parking controllers with a Wiegand 26, 34 or 98 input
- ✓ PC software over RS232, RS485 or USB, using the SDK
- ✓ Networked software over TCP/IP (U610-N only)
- ✓ 902–928 MHz or 865–868 MHz operation, ordered per band

Not designed for

- × 125 kHz or 13.56 MHz cards such as EM4100, MIFARE or NFC — see 125kHz readers and 13.56MHz readers
- × Active (battery-powered) tags
- × Writing tags over Wiegand — writing needs the SDK or demo over serial, USB or TCP/IP
- × Long lanes beyond 8 m — use the U640-M or U650-M
- × Power over Ethernet (not listed; use a DC 9–12 V supply)

- ◆ N-type (Wiegand, RS232/RS485, USB) or E-type U610-N with TCP/IP
- ◆ Cable length and connector (DB9 or open wires) on request
- ◆ Supply with or without mounting bracket and power adapter — 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.