

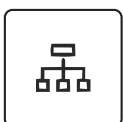
UHF RFID Integrated Reader TW-UR8000



TW-UR8000 is an extended range, all in one UHF RFID reader with a built-in circular polarized antenna. It reads tags from up to 16 metres away and captures more than 400 tags per second, so it suits vehicle identification at gates and parking entries. It connects over RS-232 & Wiegand (TCP/IP Optional), which lets it plug straight into access controllers and existing Wiegand systems.

The waterproof housing is built for all weather outdoor use.

Features



TCP/IP
Connectivity
(Optional)



Up to
16mtr. Reading
Sensitivity



Vehicle
Access
Integration



0~33dBm
Output
Power

Key features

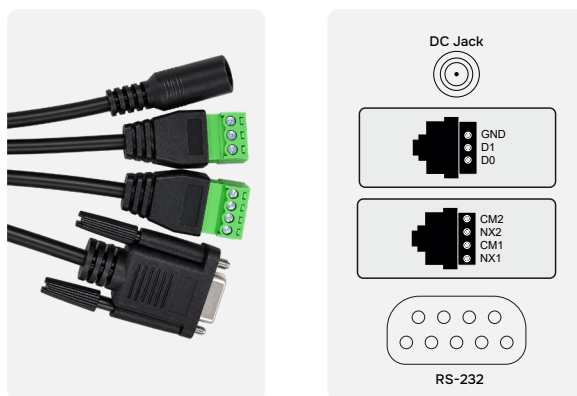
- Extended range: Reads tags from 0 to 16 m, depending on the tag and environment
- High speed: Captures more than 400 tags per second, reliable even with moving vehicles
- Communication Interfaces: RS-232 & Wiegand (TCP/IP Optional) outputs for direct connection to access control panels.
- Two working modes: Active (default), Answer (command)
- Global standard: EPC global UHF Class 1 Gen 2 (18000-6C) protocol support
- Rugged build: Waterproof ABS housing, rated for -20 °C to +65 °C
- Always on: A hardware watchdog monitors the CPU for stable, uninterrupted operation
- Low power: Standby current of 80 mA or less at 12 V
- Smart feedback: Green/Red status LED and a buzzer that can be muted in software
- Easy integration: 2 GPIO output and a full SDK with demo source code and protocol documentation

Technical Specification

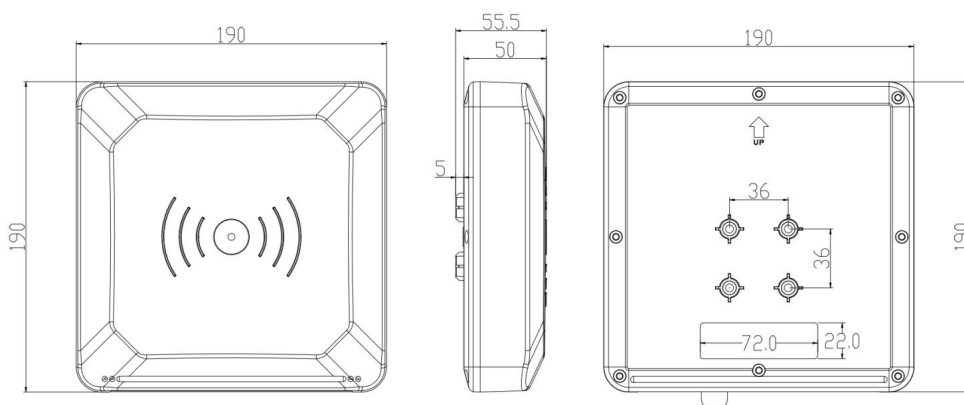
Frequency	865 to 868 MHz (other bands through software)
Protocol	EPC global UHF Class 1 Gen 2 (18000-6C)
Antenna	Circular polarization
Output power	0 to 33 dBm, adjustable in 1 dBm steps (±1 dB accuracy)
Receive sensitivity	< -75 dBm
Read / write distance	0 to 16 m / 0 to 2.5 m (depending on label on environment)
Inventory speed	> 400 tags/second
Interfaces	RS-232 & Wiegand (TCP/IP Optional)
Baud rate	115200 bps (default)
GPIO	2 output
Power supply	DC 12 to 24V
Current	Standby ≤ 80 mA, maximum ≤ 800 mA @ 12 V
Operating temperature	-20°C to +65°C
Storage temperature	-40 °C to +85 °C

Operating Humidity	5% to 95% RH, non condensing
Dimensions	190 × 190 × 55.5 mm
Housing	ABS, waterproof

Wiring Instructions



Dimension Drawing



Application



Parking



Logistics



Warehousing



Retail



Transportation



Tolling

Disclaimer : All pictures shown are for illustration purposes only. The actual product and color may vary due to product enhancement. The brief specification is mentioned and may change without prior notice. Please consult us before placing any order.