

LR-6^{XL} Reader

Long-Range RFID Microwave Reader



The LR-6^{XL} “all-in-one” 2.45 GHz RFID Reader, with an integrated antenna and controller, is prepared for outdoor use in all weather conditions. It is ideal for applications in demanding environments requiring a more cost-effective Reader and Tag solution where an extended read range is necessary.

The standard Linux operating system enables in-house customization to specific project needs and the built-in controller allows for product integrations, including cameras, barriers, and inductive loop detectors.

Long Range Identification

A long range 2.45GHz RFID Tag will be identified up to 33 feet* using the LR-6^{XL} Reader. The Microwave Tags are battery powered, keeping the Tag alert for an instantaneous response to the Reader signal.

LED & Buzzer Indication Control

The built-in high intensity red and green LEDs provide the user visual feedback that the Tag has been read by providing a status indication. The LED and buzzer indicators provide a better definition of the read lobe enabling quick and easy installation and configuration.

KEY FEATURES:

- Consistent read-range up to 33 ft*
- License-free worldwide
- Frequency hopping (FHSS**)
- OSDP, Ethernet (TCP/IP), Wiegand, RS232 and RS485 serial communication
- IP66 rating – no additional weather housing required
- Isolated I/O ports
- LED and buzzer indicators
- Product integration

Easy Integration

All of TagMaster’s systems support an extensive variety of **industry standard protocols** including OSDP, Ethernet (TCP/IP), RS232 and RS485 serial communication, as well as Wiegand interface.

Frequency hopping (FHSS**) enables the Reader to hop between frequencies within a specific band, ensuring smooth operation in RF-intensive areas.

Applications

The LR-6^{XL} Reader is designed for long-range applications such as:

- Airport parking & Ground Transportation Management Systems (GTMS)
- University and hospital parking
- Commercial and corporate parking areas
- Commercial Vehicle Management Systems (CVM)

Part No. Information

| | |
|------------------------|--------|
| LR-6 ^{XL} | 154900 |
| Ceiling Mounting Kit | S1902 |
| Universal Mounting Kit | S1936 |
| Cable | S1915 |

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SPECIFICATIONS

| Technical Information | LR-6 ^{XL} |
|-------------------------------|--|
| Part No. 154900 | |
| Read range | Up to 33 ft* |
| Operating Frequency | 2.435 to 2.465 GHz, (FHSS** 2.400 to 2.484 GHz) |
| Operating Temperature | -40°F (-40°C) to +158°F (+70°C) |
| Dimensions | 11.4 x 5.2 x 2.2 in |
| Weight | 2.2 lbs. |
| Housing | The housing is made from UL94 certified XENOY™ plastic, known for its strength and durability |
| Protection | IP66 – no additional weather housing required |
| Power Supply | 24 VDC |
| Power Consumption | 5W (max: 15W) |
| Power output | 75 mW e.i.r.p |
| Cable (Sold Separately) | Part No. S1915 25 ft, Cat5e 350 MHz, Nylon Rip Cord, for Ethernet, Wiegand, Serial RS232/Serial RS485, and Power. |
| Cable Conductor | 18/2 AWG for Power 22/2 AWG + GND for Interfaces |
| Range Detection | LED and Buzzer indicators |
| Optional Mounting Accessories | Part No. S1902 Ceiling Mounting Kit Part No. S1936 Universal Mounting Kit |
| Interfaces | OSDP, Ethernet (TCP/IP), Wiegand, RS232 and RS485. |
| Memory: Flash / RAM | 16 MB / 32 MB |
| Certificates & Standards | CE Certificate according to R&TTE Directive 1999/5/EC, FCC: M39LRXX |

* Depends on Reader mount and ID-tag

** Permissible subject to local regulations

The information in this document may be subject to change without prior notice.