

LR-6 Reader

DATA SHEET

The LR-6 is a 2.45 GHz RFID reader with a read-range of up to 10 metres



The LR-6 Reader is optimised for Traffic and Access applications:

- ▶ Industrial AVI
- ▶ Fleet Management
- ▶ Traffic Management

High quality RFID reader

The TagMaster LR-6 Reader is optimised for vehicle access that requires hands-free long-range identification up to 10 metres. With its "all-in-one" design, including integrated antenna and controller unit, the LR-6 is certified for outdoor use and is easy to install and easy to use. The built-in controller makes it possible to integrate the LR-6 reader with other products like cameras, barriers, inductive loop detectors etc.

TagMaster's LR-6 reader can also be used to add further value to a client's business. For example, it can be linked to fuel pumps or weighing scales, where the weight and ID-tag data of the vehicle are transmitted to a central host. By weighing the vehicle before and after loading/unloading, the weight is automatically entered into the system. The information can then be used for invoicing, time stamps or waste control management.

The LR-6 is built around a standard Linux operating system and has an open development platform. This enables inte-

KEY FEATURES

- ▶ Read-range, up to 10 metres
- ▶ Robust and weatherproof design, IP66
- ▶ Integrated controller
- ▶ Ethernet, RS232, RS485 and Wiegand/Magstripe interfaces
- ▶ Bright LED indicator and buzzer
- ▶ Licence-free worldwide

grators to develop and implement new applications for the LR-6 Reader using the TagMaster Software Development Kit.

Supports several interfaces

The Reader can be configured and controlled via the Ethernet interface, either locally or remotely via an Internet connection. The LR-6 supports several standard interfaces including Ethernet (TCP/IP), RS232, RS485 and Wiegand, Magstripe.

Options for extended read range

If you need a longer read range, TagMaster also provides the LR-6XL in its product portfolio. The LR-6XL reads up to 14 metres and is an excellent choice for wide gates and access for heavy trucks which need an even longer read range for entry and exit lanes.

The read range also depends on type of ID-tag, for more information see the table at page 2, Technical information.

PART NO. INFORMATION

| | |
|------------------------|--------|
| LR-6 Reader | 154600 |
| Universal Mounting Kit | 193600 |
| TagMaster SDK | 174000 |

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TECHNICAL INFORMATION

| | |
|----------------------------------|---|
| Operating frequency | CW: 2.435 to 2.465 GHz, FHSS: 2.400 to 2.484 GHz |
| Read range | Up to 10 metres (33 ft) |
| Write range | Up to 0.25 metres* (0.8 ft) |
| Dimensions | 290 x 165 x 55 mm (11.4 x 5.2 x 2.2 inch) |
| Weight | 1.0 kg (2.2 lbs) |
| Protection | IP66 |
| Operating temperature | -40°C (-40°F) to +70°C (+158°F) |
| Housing | UL94 certified plastic XENOY™ housing and cover |
| Power supply | 10–30 VDC supply |
| Power consumption | 5 W (max 15 W) |
| Output power | 10 mW e.i.r.p |
| Controller | 180 MHz ARM902T CPU, 32MB RAM, 16MB Flash, Linux operating system |
| Interfaces | RS232, RS485, Wiegand/Magstripe, Ethernet (TCP/IP) |
| Certificates | CE Certificate according to R&TTE-Directive 1999/5/EC, FCC M39LRXX, UL Listed E345040 |
| Manuals and documentation | LR-series Installation Manual, LR-series Datasheet, GEN4 Reader User's Manual |

* Reading range depends on type of ID-tag and reader settings

| TYPE OF ID-TAG | READING RANGE IN METRES AND (FT) |
|-------------------|----------------------------------|
| MarkTag Classic | 6 (20) |
| ScriptTag Classic | 6 (20) |
| MarkTag MeM | 10 (33) |
| MarkTag MaX tpe | 10 (33) |
| MarkTag Outdoor | 6 (20) |

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