



SPECIFICATIONS

Items / Specs	UHF Reader
Frequency	433MHz
ERP	500uW
Power requirement	12VDC – 14.5VDC, ±30mA
Size	3.3in x 1.6in x 0.7in
Weight	1.6 oz
Color	Dark Grey
Type of material	PVC (ultrasonically sealed) IP 65 rating
Input/Output Connectors	Two RJ45 Sockets for CAT 5 cable
	Directional Antenna
Size	14.5 x 15 x .67 inches
Mounting Bracket	Wall mount included
Finish	UV resistant front cover and coating on rear
Weight	≤ 2 kg
Temperature Range	- 40°C to + 70°C
Environmental Specification	Conforms to ETS 300 019
Antenna type	0 dBi Flat Panel
Frequency band	433 MHz ± 2 MHz
Gain at connector	0 dBi
3 dB beamwidth	Horizontal nominally 90° - Vertical nominally 90°
VSWR	< 1.6 : 1
Impedance	50 Ohms
Maximum power	20 W
Front to back ratio	> 15 dB
Connector	BNC (Male)
	L-TG100, L-TG501, L-TG800
Environmental	
Operational TEMP.	-10°C to + 60°C
Storage TEMP.	-20°C to + 70°C
Humidity	5% to 90% (non condensing)
Physical	
Size	64 x 30 x 9 mm (L-TG 100) 86 x 54 x 6 mm (L-TG 501) 85 x 70 x 9 mm (L-TG 800)
Weight	< 15 gm (L-TG 100 excluding antenna) < 15 gm (L-TG 501) < 20 gm (L-TG 800)
Color	Grey (Clariant 04-600 2%)
Material	PVC
RF Specifications	
Tx frequency	433.92 MHz
Power output	38uW, -14dBm, 93dBuV
Modulation	ASK
Bandwidth	< 1 MHz
Stability	SAW Controlled
Power	
	Internal Lithium Battery



We have been working with the industry leading ultra long range RFID equipment manufacturers to assure our customers the best products and solutions. The hardware systems have been in use for thousands of customers worldwide in traffic management, supply chain, and access control.

Applications

Real-time Traffic Management

- Electronic Vehicle Registration - enforce regulation, reduce processing time and improve accuracy
- Real-time Traffic Information - reduce traffic and speed up accident processing time
- Automatic Identification – reduce car theft and assist to locate lost car
- Automatic Vehicle Toll Collection

Vehicle, Asset and Personnel Access Control

- Hands-Free Parking Management: Gated Communities and Apartments, Government Facility Vehicle Control, On-street parking, Frequent user parking, Cashless parking, Mobile parking, Hospitals, Universities / campus
- Airport Taxi and Shuttle Bus Control: Terminal bus control, Taxi dispatch system, Commercial traffic regulation, Driver Access control
- People tracking and locating: theme park, conference, underground mine
- Asset management: secure monitoring and tracing asset movement

Transportation and Logistics

- Vehicle and asset tracking and tracing for trucking companies and fleets, bus and transportation companies, and rental cars and trucks
- Integrated with GPS and GPRS systems for on road tracking and tracing
- Automatic Operation and Maintenance: Fuelling, Weighing, Washing, Loading
- Railway: Automatic tracking railcar, equipment, and cargo

* This specification is preliminary and subject to change without prior notice.