

# Tag

Product Code: L-TG801

## Description: Small Asset Tag

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The L-TG801 Tag is specially designed for use in asset tagging applications such as laptops, IT equipment, vehicles and transport media. The L-TG801 is ideally suited for **operating on metallic surfaces** (or plastics containing a high metal content).

The Wavetrend series of Active Asset Tags are powered by an internal battery and will transmit a Radio Frequency (RF) signal at a pre-set time-interval for the duration of its life. The Tag life is estimated at 5 years at a transmission time interval of 1.5 seconds. Battery status can be inferred by interrogating the internal Tag Age Counter Value.

The data transmitted by the Tag includes Customer Site Code (CSC), Tag ID, Tag Age Counter Value, Movement Alarm and Tamper Alarm status.

For protection against adverse environmental conditions, Wavetrend Asset Tags are encapsulated in a moulded plastic case, which is ultrasonically sealed during the manufacturing process.

The mounting and affixing of a Tag depends on the type of application. The standard method is by VHB type double-sided adhesive tape (Product Code L-TA600).

The Tag can be configured to accommodate Wiegand interfacing.



## Features:

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- Small form factor
- Configurable settings, including Site / Vendor ID, Tag ID, Transmission, Repetition Interval and Alarm functions
- Low power consumption - Tag life is estimated at 5 years when transmitting at a 1.5-second interval
- A collision avoidance algorithm is used to dispose the transmissions around the mean repetition interval
- Compatible with all Wavetrend readers – RX201, RX300, RX400, RX900 and RX1000

## Specifications:

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### Environmental

Operational temperature	- 10° C to + 60° C
Storage temperature	- 20° C to + 70° C
Humidity	5% to 90% (non condensing)

### Physical

Size	90 mm x 30mm x 8.6 mm
Weight	< 20 grams
Colour	Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65

### RF Specifications

TX Frequency	433 Mhz
Typical Transmission Range	Up to 60 Meters
Field strength	< 1600 $\mu$ V/m
Modulation	ASK
Bandwidth	< 1 MHz
Stability	Saw Stabilised

### Electrical Specifications

Power	Internally powered Lithium Battery
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## Summary of Tests:

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Effective radiated power	25MHz - 4GHz
Range of modulation bandwidth for wideband equipment	
Frequency stability under low voltage conditions	
EN55022	Radiated emissions 30MHz – 1GHz
EN61000-4-3	Radiated immunity 80MHz – 1GHz, excl 434 MHz $\pm$ 20MHz
EN61000-4-2	Electrostatic discharge

## Certification:

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To be finalised.

**Product Pictures:**

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Figure 1



Figure 2

All values are indicated in millimeters (mm).

These tags are available with either one of two housings. See Figure 1 & 2 above.

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