

## Link-it™ Active Tag

L-TG100 (Domino Tag)

L-TG101 (Domino Tag with Movement Sensor)

### **Description:**

The Link-it™ series of Active Tags are powered by an internal battery. The Tag will, for the duration of its life, transmit a Radio Frequency (RF) signal at a pre-set time-interval. The Tag life is estimated at 5 years at a transmission time interval of approximately 15 seconds. The lifespan of the Tag ends when the battery life is exhausted. Battery status can be inferred by interrogating the internal Tag Age Counter Value.



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

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

The Domino Tag is generally used for asset tagging. The mounting and affixing of a Tag depends on the type of application. The standard method is by VHB type double-sided adhesive tape.

The Tag can be configured to accommodate Wiegand interfacing.

### **Features:**

- Configurable settings, including Site Code Vendor ID, Tag ID, Transmission Repetition Interval and Alarm functions (these are programmed at order placement stage)
- Low power consumption. Tag life is estimated at 5 years when transmitting at a 15-second interval.
- A random dispersion around the transmit interval mean is used to minimise the inter-tag collisions
- External Antennae

## **Applications:**

Link-it™ Tags can be mounted on a variety of items. Where permanent fixing is required, VHB double-sided tape is used.

## **Specification:**

### **Environmental**

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

### **Physical**

Size	61 mm x 30mm x 9mm (Domino Enclosure)
Weight	15 grams (excluding antenna)
Colour	Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65

### **RF Specifications**

T <sub>x</sub> Frequency	433.92Mhz±10MHz
Power Output	-14 dBm, 72 db µV, 4300 µV/m, 38µW
Modulation	OOK
Bandwidth	3 MHz
Stability	Loosely coupled Saw

### **Electrical Specifications**

Power	Internally powered Lithium Battery
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### **Range Options**

Domino Tag (without external antenna)	Approximately 2.5 Meters
Domino Tag (with external antenna)	Approximately 6 Meters

### **Certification**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the computer and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.