

## Link-it™ Active Tags

L-TG500 (Slimline Tag)

### **Description:**

The Link-it™ L-TG500 Active Tag is 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 to be at least 5 years at a transmission time interval of approximately 15 seconds. The Tag is simply replaced when the battery has expired. Battery status can be inferred by interrogating the internal Tag Age Counter Value.

Tag data that is transmitted includes Site / Vendor ID, 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.

In addition provides a constant RF power output which reduces makes system calibration easier as well as faster. The L-TG500 Tag is generally used for personnel tagging, although it may be used in other applications, ie. the external tagging of Laptop Computers. The mounting and affixing depends on the type of application. The standard method is by VHB type double sided adhesive tape.

Several unique features of the Tag can be configured.  
For example: access control and weigand interfacing

## Features:

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- Configurable settings, including Site / Vendor ID, Tag ID, Transmission Repetition Interval and Alarm functions.
- Low power consumption. Tag life is estimated to be at least 5 years when transmitting at a 15-second interval.
- Proprietary Encryption Method

## Applications:

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Link-it™ Tags can be mounted on a wide variety of items. Where permanent fixing is required VHB double sided tape is used. Where permanent mounting is not required, the tags may simply be carried by a person (typically if used as a person identifier) with a clip attachment, or inserted in a carry pouch and worn around the neck

## Specification:

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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	86mm x 54mm x 5mm (Slimline Enclosure)
Weight	<25gms
Colour	Dark Grey (Clariant 04-600 2%)
Type of material	PVC (ultrasonically sealed) IP 65

### RF Specifications

Frequency	433.92Mhz
RF Output Power	< 300µW
Typical Transmission Range	8 Meters (24 feet)

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Link-it™ is a registered trademark of AIT. Specifications and product availability subject to change without notice. Tag and reader communication distances assume optimal orientation between tag and reader. Read distances may vary as a result of the presence of metal and environmental conditions. Refer to other publications from AIT regarding application practises for RF tagging.

RSA Patent numbers: 99/1629, 1630, 1631, 1632, 1636, 1673  
USA and PCT patents pending

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Revision Date: 02/02/01



**Link-it™**  
**Product Information Sheet**

**Certification:**

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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.