

ACTIVE RFID



- Beacon tag transmitting a unique ID & data at pre-set intervals
- Low cost tag designed specifically for use on metal
- Ultra low power consumption provides exceptional battery life
- Ultra long-range transmitter
- Low battery warning
- Anti-tamper alert option
- Instant movement alert
- Signals less frequently when at rest

The Activ TG800 Asset Tag is an active RFID tag designed for direct attachment to metal assets. It continuously transmits its unique ID number, which can be detected by Wavetrend® readers. An internal battery powers the tag and Wavetrend's patented ultra low power use design ensures industry leading longer battery life at higher rates of transmission than other active tags. The tag immediately transmits alerts upon movement.

KEY FEATURES	BUSINESS BENEFITS
Tag can hold standard 26-bit or 32-bit Wiegand ID numbers	Allows tag to be used with existing access control systems together with the RFID system.
Configurable settings include: <ul style="list-style-type: none"> ▪ Site/vendor ID ▪ Tag ID ▪ Tag Age Counter ▪ Various transmission repetition intervals (default 1.5 seconds*) ▪ Movement Alert Sensor & reduced transmission repetition intervals when in alert mode 	<ul style="list-style-type: none"> ▪ A unique code that can be allocated by Wavetrend to each customer on request. Readers can be set to ignore tags with incorrect site codes. ▪ 4.2 billion tag ID's are available per site code. ▪ The Age Counter allows for advance notification of the end of battery life and for the unique identification for each transmission made by the tag. Aids detection of counterfeit tags. ▪ Different status transmission intervals allow tags to be used in diverse applications while offering the best battery life spans in the market. ▪ Provides instant notification of an attempt to move a tag through rapid alert transmissions for 2 seconds
Tamper Alarm (option)	Provides instant notification of unauthorized attempts to remove a tag from an asset. Requires use of TA800-AT Tag Attachment Kit (sold separately).
Tamper Latch (Option)	Provides continual notification of a previous tamper alert with every transmission.
Collision avoidance algorithm	Reduces loss of data caused by simultaneous transmissions from multiple tags.
Ultra low power consumption	Life span of 5 years when transmitting at the standard or greater interval. (* see over)
Sealed to IP64 standards	Splash proof. Can be repackaged for applications requiring Intrinsic Safety certification.

Best Usage Guide



Personnel



Track Assets



Use on Metal



Indoor Use



Outdoor Use



Windshield Use

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Typical Applications

The TG800 Asset Tag is generally used for asset monitoring & tracking applications where the assets are constructed of metal or metallic compounds. The tag is designed for direct mounting on metal, magnetized metal or very close to electronic components (such as found within a laptop computer). It can be attached to the asset using the tag attachment kit (sold separately). **The tag will provide optimum output signal strength when fixed directly onto metal surfaces.** When used on glass, wood or plastic items, the maximum transmission range will be reduced by a small degree.

Model Range

L-Series	
L-TG800-A*	: Standard tag

Air Interface Protocols

'L-Series' refers to a proprietary communication protocol used between Wavetrend® tags and readers. The L-Series reader must be used with Wavetrend® L-Series tags.

L-Series tags provide ultra long read and are ideal for use in low tag density applications (<50 tags per reader, with the Alert Tx interval set at 1.5 seconds) such as personnel tracking, small-scale asset management applications and access control systems.

Specifications

Environmental Operating temperature Storage temperature Humidity	: -10°C to +60°C : -20°C to +70°C : 5% to 90% (non-condensing)
Physical Size Weight Colour Material	: 85 x 70 x 9 mm : 36g : Grey (L-Series) and Black (W-Series) : ABS (ultrasonically sealed) IP64
Radio Frequency Transmit Frequency Range	: 433.92 MHz : 1 to 100+ meters (actual range is determined by the choice of reader & antenna used to detect the tag and the environment it is used in)
Electrical Power	: Internally powered by lithium battery (All sold in packs of 10)
Accessories TA800 TA800-AT	: Tag attachment kit : Tamper alerting tag attachment kit

* (from front page) Battery life calculations assume operation at room temperature with the default status transmission interval of 1.5 seconds, without the anti-tamper circuit armed and without a motion sensor fitted.

IMPORTANT NOTICE: Wavetrend ACTIV tags do not comply with the FCC Part 15 rules or hold IC approval, so are not available for sale into the United States of America or Canada.

IP Information

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Ordering & Further Information

For more information on purchasing the Activ TG800 Enviro Tag please email Wavetrend's Sales team:

sales@wavetrend.net

For more information on Wavetrend® visit our website.

