

ACTIVE RFID



- Beacon tag transmitting a unique ID & data at pre-set intervals
- Ultra long-range transmitter
- Anti-tamper alert option
- Motion sensor option

The TGAI-A Activ Asset Tag is a long life active tag that continuously transmits a unique ID number, which can be detected by Wavetrend® reader. An internal battery powers the tag and Wavetrend's patented ultra low power use design ensures longer battery life at higher rates of transmission than any other brand of active RFID tag. Various preset transmission intervals are available.

KEY FEATURES	BUSINESS BENEFITS
Tag can be configured to hold standard 26-bit Wiegand numbering	Allows tag to be used with existing access control systems separately or together with the active RFID system.
<b>Configurable settings include:</b> <ul style="list-style-type: none"> <li>▪ Site/vendor ID</li> <li>▪ Tag ID</li> <li>▪ Tag Age Counter</li> <li>▪ Various transmission repetition intervals</li> <li>▪ Movement Alert</li> <li>▪ Tamper Alarm</li> </ul>	<ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ 4.2 billion tag ID's are available per site code.</li> <li>▪ 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.</li> <li>▪ Different status transmission intervals allow tags to be used in diverse applications while offering the best battery life spans in the market.</li> <li>▪ Provides instant notification of an attempt to move a tag through rapid alert transmissions for 5 seconds.</li> <li>▪ Provides instant notification of unauthorized attempts to remove a tag from an asset.</li> </ul>
Collision avoidance algorithm	Reduces loss of data caused by simultaneous transmissions from multiple tags.
Ultra low power consumption	Typical lifespan of 3 years when transmitting at the standard or greater interval.
Sealed to IP64 standards	Dust Proof

Best Usage Guide



Personnel



Track Assets



Use on Metal



Indoor Use

## ACTIVE RFID

### Typical Applications

The TGAI-A Asset Tag has a unique omni directional antenna design allowing the tag to be read from all directions and to be deployed equally well on metallic and non metallic assets.

Optimum read range is achieved on metal with a 10% reduction on non metals.

#### Model Range

The tags can be ordered using the part numbers listed below:

L-Series
TGAI-A

### Air Interface Protocols

L-Series tags provide ultra long read range and are ideal for use in low tag density (< 30 tags per reader) operations such as personnel tracking, small asset management applications and access control systems.

#### Ordering & Further Information

For more information on purchasing the Activ TGAI-A Tag please email Wavetrend's Sales team:

[sales@wavetrend.net](mailto:sales@wavetrend.net)

For more information on Wavetrend® visit our website.

*\* (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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### Specifications

<b>Environmental</b>	
Operating temperature	: -30°C to +60°C
Storage temperature	: -40°C to +70°C
Humidity	: 5% to 90% (non-condensing)
<b>Physical</b>	
Size	: 39 x 33 x 13mm
Weight	: 22g
Colour	: Black
Material	: Nylon
<b>Radio Frequency</b>	
Transmit Frequency	: 433.92 MHz
Range	: 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)
<b>Electrical</b>	
Power	: Internally powered by lithium battery
<b>Accessories</b>	
TA-TGAI	: All sold in packs of 10
TA-TGAI-AT	: Tag attachment kit
	: Tamper alerting tag attachment kit

#### FCC Statement of Conformity

##### Wavetrend TGAI-A Active Duo

##### FCC ID: 06XTGAI-A

This device complies with Part 15 of the FCC rules subject to the following three conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept all interference received, including interference that may cause undesired operation.
- 3) This device is for commercial use only and intended for use in a confined area with an appropriate system receiver

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Certifications

