

Features & Specification

Real-time Response

Each tag keeps sending signals to the Empress™ reader enabling real time tracking, instant response to tamperproof sensor and LED indication.

Durable, Long battery life

Battery used in the tags is replaceable and durable, providing long useful life feature. All Garrison™ tags make a cost effective choice for asset tracking applications.

Robust with durable plastic casing

All tags are manufactured with durable special casing. Responsive and Rugged Tags have IP65 protection rating and are suitable for working under heavy duty environment.

Frequency	2.4GHz ~ 2.5GHz ISM
RF Power Output	0dBm (1mW)
Power	16 – 18µA, 3V
Anti-Collision	Read more than 100 tags simultaneously
Reading Range	Maximum 50m (depends on reader)
Operation	Read only, with unique ID
Others	IP Rating: IP65 (waterproof, dustproof, shockproof)
Rugged Tag HKRAT-RT02	
Dimension	78.8mm x 33.6mm x 9.7mm
Battery Life	Around 3 years (battery life measured at 3-second beacon interval)
Responsive Tag HKRAT-ZT02	
Dimension	78.8mm x 33.6mm x 9.7mm
Battery Life	Around 2 years, depends on LED (battery life measured at 3-second beacon interval)
Others	LED Light & Tamperproof Sensor

* For detailed specification of each product, please refer to product catalogues.



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Company Awards:



Garrison™ 2.4GHz Active RFID Tag Series

Reliable in Asset Tracking Applications

Featuring Excellent Accuracy and Durability

The reliable performance offered by our Garrison™ Series for asset tracking can bring great convenience yet reduce costs for the company. Durable design of Garrison™ Tags can ensure long term use in any application, even in heavy duty environment and industrial areas, where keeping track of equipment and other valuable items is of critical importance. The replaceable battery design brings cost effectiveness as the tag could be reused.

Rugged Tag (HKRAT-RT02)



Rugged Tag with IP65 protection rating to ensure durability in any harsh environment

Responsive Tag (HKRAT-ZT02)



Responsive Tag with LED light and tamperproof sensor for responsive location identification

The Garrison™ tag family consists of a series of location tracking active RFID tags designed with durable plastic casing suitable for different applications. Accurate tamperproof sensor and powerful RFID functionality ensure reliable location tracking of assets. Each model demonstrates unique features with durable product design, providing users the most flexibility in applying tags on different objects as well as in any heavy duty environment.

Garrison™ Applications

Responsive Tag has a *Tamperproof Sensor* and *LED light*. Not only can it perform basic tracking functions with the Empress™ reader, it can prevent the tag from being removed from the asset item using the tamperproof sensor and indicate the location of the tag with the flashing LED light upon request from the reader.

Application Example:

◆ Server Room

To find a specific server out of thousands of servers, the operator can have the LED light on the Responsive Tag attached to that server to light up. The server then can be located much easier and faster.

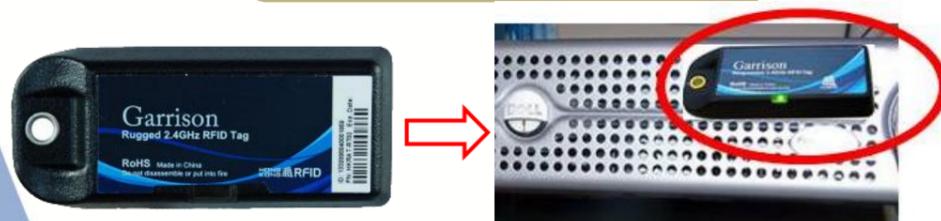
If someone tries to remove the tag from the server, the tamperproof sensor would be triggered and a signal would be sent to the reader. Alerts will be given to inform operators of the situation.

1 Attach Garrison™ Responsive Tags onto each server. Install Empress™ Active Readers to cover the area.



2 Tag ID would be sent to the reader periodically to keep track of the servers. The tamperproof sensor status of each tag on each server is instantly sent to the system.

3 The reader sends a signal to have the LED light on a particular tag light up for operators to locate a specific server easily.



Tamperproof sensor will be triggered and **LED light** indicator can show the location of the server on the open racks of server room.

Rugged Tag provides excellent reading range and reliability for industrial applications. With its robust design, it is durable to perform reliably in environments with metal and other non-RF-friendly items. This ensures accurate reading and tracking. The battery of the tag is replaceable to ensure cost effective operations. The tag is also waterproof and dustproof.

Application Example :

◆ Valuable Equipment

In hospitals, the location of expensive medical equipment is of critical importance during emergency cases. Without proper management, heavy costs, including time cost in the time personnel spent trying to locate the equipment and monetary cost incurred due to overprovision caused by hoarded devices in some unknown area, will be induced.

By attaching a Rugged Tag on every equipment, real time location tracking is enabled. The tag sends its ID to the Empress™ reader periodically and the reader sends the ID back to the system for constant updating. The location of a certain item can be retrieved within seconds saving time and cost in locating it.

1 Attach Garrison™ Rugged Tags onto each equipment. Install Empress™ Active Readers to cover the area.



2 Tag ID of each equipment would be sent to the reader periodically for real time tracking.

3 Location of the asset can be instantly reflected through the PC. Time and effort can be saved from searching the equipment around.



Each tag carries a unique ID by communicating with reader installed on the ceiling of every room of the hospital.

Other Applications:

- ◆ Alert Management in Exhibition Centre
- ◆ Warehouse Management in Container Terminal