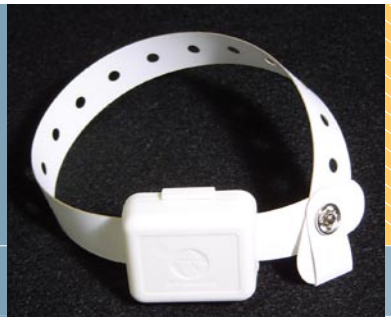
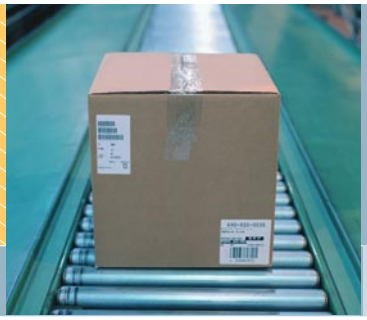
WristbandTag





Description

The ActiveWave wristbandTag is the size of a wristwatch, yet much lighter. This tag is designed to be worn around the wrist. The wristband is secured such that if it is unfastened or cut, then the tag will immediately send an alarm to the system.

The wristbandTag can be used to track people and monitor assets in an office, warehouse, or any other type of facility. For example, wristbandTags can be configured to monitor newborns in a hospital, track Alzheimers patients in a nursing home, or even locate firemen in a smoke-filled building – basically any application that requires system monitoring of people. Wristbandtags can even be used to monitor inventory items by attaching around the arms of chairs, the handles of a car, etc. When miniTags are used on both people and equipment, then all movement of valuable assets without an assigned owner will generate system alarms and can securely lock exit doors.

Typically, the wristbandTag remains in sleep mode until it receives a wake up command from an ActiveWave Reader or Field Generator. If the command is intended for this tag (specific address or broadcast), then the tag will awaken and transmit its ID and other information to an assigned system Reader.

The tag can also be configured to automatically wake up at pre-defined intervals, transmit its information to the system, then go back to sleep to conserve battery life.

Unique anti-collision algorithms are used to ensure that all tag data is received, even when multiple tags are transmitting at the same time. To guarantee that all data remains accurate, all tag packets use reliable cyclic redundancy checks.

Several wristbandTag versions are available, each supporting a wake up frequency of 433 MHz and transmit frequency of 916 or 868 MHz. An optional temperature sensor can send periodic temperature readings to the system. When the temperature of a tagged item exceeds predefined thresholds, the tag automatically sends alarms to the system. Other wristbandTag options include an LED, tamper switch, and various amounts of user memory ranging from 0 to 256Kbits. Even more peripheral options may be added to satisfy your application needs.

Current Practice

Traditional method of Access Control, Asset Tracking, and Inventory Control are limited and outdated. Access Control methods range from security guards to employee badges that must be swiped or placed close to a passive RFID proximity reader. Tracking methods are either entirely visual - dependent on security guards or surveillance cameras - or too costly such as GPS. Inventory Control methods require much money for complex enterprise software, and much more time and manpower for physical counting. Barcode scanning requires line-of-sight, close distance, and clean, undamaged barcode labels. None of these traditional methods offers a solution that is completely hands-free, automated, reliable, and that can save your business thousands.

The ActiveWave Solution

ActiveWave's active RFID solution offers numerous advantages over traditional methods.

Valuable items are easily tracked throughout a facility by simply attaching an ActiveWave tag. Alarms are automatically generated for unauthorized movements through specified doors and at specified times. This same concept applies to tracking people as well. In fact, ActiveWave's Host software ties together both people and assets such that certain assets can only be moved by authorized people.

For inventory counts, ActiveWave tags can automatically wake up and report their presence on a periodic basis. If a tag misses its scheduled "check in" time, then the Host can generate an alarm so the loss can be investigated immediately. New items are added to the count by simply moving them into the warehouse. Imagine the savings of automated, hands-free, daily updates to your entire inventory.

How else can ActiveWave help your business?

With our technology, features, flexibility, and innovation, the sky's the limit...

Visit our web site at www.activewaveinc.com.

User Memory	0 - 256 Kbits	
Multi-Tag Read Capability	Yes	
Transmit Frequency	916 MHz, 927 MHz, or 868 MHz	
Receive Frequency	433 MHz	
Read range (maximum)	Receive	30m (100 feet)
	Transmit	85m (280 feet)
Power	3V Lithium-ion replaceable watch battery	
Battery Life	1 - 3 years depending on use (tag has low battery detection)	
Dimensions	without wristband	34 mm x 32 mm x 12 mm (1.3 in x 1.2 in x 0.5 in)
	wristband	279 mm x 15.5 mm x 0.43 mm (11.0 in x 0.6 in x 0.02 in)
Weight	11.5 grams (0.4oz)	
Case Material	ABS (Acrylonitrile Butadiene Styrene)	
Temperature	Operating	-35C to +50C (-31F to +122F)
	Storage	-40C to +85C (-40F to +185F)
Tag options	Tamper	Alarms if wristband removed from person or tag
	Temperature	Alarms if exceeds predefined limits
	LED	Blinks when called
	Memory	0 - 128Kbit memory sizes available in 2^X increments

activeWAVE

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