



Inventory Active-Tag

RFID Active Tags
SIM-RFID



The dual-frequency INGECOM Active Tag finds its use typically in logistics applications, for the asset management. It can be operated at short range for access control or configuration with the Near-Field Reader. The long range operation operates within the worldwide unlicensed 13.56MHz and 2.45GHz range. With an average coverage range of 125000m2 (1000000Sq-ft) in open space, or typically 3000m2 (30000Sq-ft) indoor, the Active Tag is very well suited to large scale applications.

Thanks to the exceptional long battery lifetime of 10 years over the full temperature range with a 4 second beacon rate, the Active tag operating cost can be as low as 0.005€ per day of usage, installation costs and software included.

The small case features two diameter 3mm mounting holes in order to be bolt directly on an asset. The ABS plastic case can be delivered water-resistant with IP65 rating. An optional front sticker can be placed on request during the injection molding process in order to maintain the integrity of the label.



The second generation of Active Tags is based on a new ASIC designed specifically for this application. The most modern CAD tools and simulation platforms have been involved for the design and industrialization of the product. It is fitted with a unique serial number hard-coded factory programmed over 56 bits (70 quadrillion combinations).

Features

Dimension, case	48.5 x 62.5 x 4 mm ; ABS; Color Gray or on demand
Mounting holes	diameter 3mm
Protection rating	IP53 or optional IP65
Coverage Range	Up to 125000m2 free space, Up to 3000 m2 indoor
Operating Frequency	ISM Band 13.56 MHz and/or 2.45 GHz
User Configuration	Read Only or Read-Write 128 Bytes
Battery lifetime	10 years @ 4s beacon rate, RO, over full temperature range
Operating Temperature	-20°C to +70°C
Beacon Rate configurable from 1s to 30s	
Tag Talk First or Reader Talk First mode	

Compliance

Frequency	2.400GHz ~ 2.483GHz worldwide unlicensed ISM band
Temperature	IEC 60068-2-14 (Na) - Operating -20°C~70°C; Storage -30°C ~ 85°C
Vibration	IEC 60068-2-64 – Test Fh
Free Fall	IEC 60068-2-32 part2 – Test Ed
Regulation	ETS300-440 Rx Class 3; Tx Class 8; Duty cycle Class 2
Safety	EN50364: 2001 (Limitation of human exposure to EM fields)
SAR Coeff. in 10g of human tissue	< 0.000009 W/kg

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