



Wrist Active-Tag

RFID Active Tags
SIM-RFID



The second generation of INGECOM Wrist Active Tag finds its use typically for the patient monitoring. The very small form factor of the soft shell makes it usable for both the new-born in clinics or hospitals and for the mentally disabled persons. The design with soft contours ensures an adequate sterilization process. The one time usage bracelet delivered with the tag is combined with the internal electronic of the wrist tag to generate an alarm in case of removal. The case has an IP67 protection rating, therefore ensures a total water-resistance.

The Wrist Active Tag is compatible with all the products of the INGECOM second generation range. As such, the long range operation operates within the worldwide unlicensed 2.45GHz range.

The usage is intrinsically safe with a SAR factor below 0.000009 W/Kg, when the regulation standard requires a max value of 2W/Kg.



Thanks to the exceptional long battery lifetime of 5 years over the full temperature range with a 4 second beacon rate, the Wrist Active tag ownership cost is reduced to the bottom limits.

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	28.6 x 28.6 x 8.25 mm ; Antiallergenic plastic soft shell
Protection rating	IP67
Coverage Range	Up to 3000 m2 free space
Operating Frequency	ISM Band 2.45 GHz
User Configuration	Read Only or Read-Write 128 Bytes
Battery lifetime	5 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	@1cm < 0.000009 W/Kg@1cm

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