

Z-Tag for active RFID

Overview

The ZOMOFI[®] – zone monitoring & find – product family makes zone monitoring and asset tracking in buildings, warehouses, airports, on exterior premises and vehicles possible. The powerful active RFID technology consists of Tags, Controllers and accessories.

Functions and Features

The 2.45 GHz Active RFID Tag is used to identify and/or locate assets, containers or individuals. It is built around innovative CMOS circuits. This high scale of integration allows for very compact and low-power performance. The unique battery lifetime is achieved without sacrificing the reading and writing range. The Controller manages the configuration of the transmission mode.

The reading and writing range of up to more than 100m in free space is achieved with the ZOMOFI[®] Controller. The anti-collision mechanism allows for a thousand Tags to be simultaneously present in the range of one single Controller.

The unique transmission features make this Tag useful also in difficult environments, where non-friendly Radio Frequency material is present such as metal surroundings, concrete walls and water proximity. The alteration of the transmission remains usually very acceptable given the harsh conditions in which the ZOMOFI[®] Tag is operating.

Available Versions

A wide range of Tags is available based on differentiation in function and size. The packages available for water-resistant applications are an extra slim badge credit card and a domino format. In addition special ruggedized packages are available. The package of the Tag signal is IP50 protected and has LED and a mini-switch integrated. A wristband package including a push-button is IP40 protected.

The range of functionality starts with read-only devices and multifunctional Tags with read/write operations. Dedicated Tags with sensors like temperature and motion are available.



Technical data

Dimensions (L x W x H)	
Credit Card	54 x 85.5 x 4 mm
Domino	31 x 90 x 10.5 mm
Signal	52 x 27 x 8 mm
Wristband	52 x 34(44) x 15 mm
Ruggedized	95 x 60 x 18.5 mm
Rugged M	34 x 70 x 11.5 mm
Frequency Band	2.400 GHz ~ 2.483 GHz worldwide unlicensed ISM band
Temperature	IEC 60068-2-14 (Na) - Operating -10°C ~ +65°C Storage -20°C ~ +70°C
Safety	EN 60950-1 EN 50371
Vibration	IEC 60068-2-64 – Test Fh
Free Fall	IEC 60068-2-32- part2 Test Ed
EMC	EN 301 489-3 V1.4.1 EN 301 489-17 V2.1.1 EN 55022 + A1 EN 55024 + A1 + A2 EN 61000-6-2
Radio	EN 300 440-2 V1.1.2 EN 300 328 V1.6.1
Housing	dependent on type IP40, IP50, IP65, IP67