

Z-Controller Outdoor for active RFID

S3135-H1xx

S3135-H2xx

ZOMOFI® - zone monitoring & find

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 Controller is used in systems that integrate the Active Tags family ZOMOFI®. It is built around innovative CMOS circuits with very high density of integration. This technological breakthrough makes a low cost and a size-constrained design possible.

The controller can be fitted with a standard $\lambda/4$ rubber-duck antenna, like on the picture, for an up to 80m communication range. Expanding the reading distance and shaping the Radio Frequency field for distances up to 160m can be done with e.g. sector antennas.

In its basic configuration the anti-collision rate is in the range of 80 to 100 Tags per second – patent pending. One single Controller can operate at least one thousand Tags. Several topologies are available – from simple star networks to complex clusters – for operation in dense Controller mode.

A software demo application is available together with the full command set description. The firmware of the Controller is expandable in order to protect the customer's investment.

Health and safety is a major consideration. The Active Tag Controller is believed and certified to be totally harmless to any adjacent electronic equipment.

Two versions ready for outdoor

The Controller itself comes in two versions. Both are built into the robust outdoor case together with outdoor power supply and connectors to the IT-network and to the RFID antenna. If desired the antenna can also be attached at the inside of the case for best protection.

The outdoor case is running in many projects. The protection to strong splash water and dust together with the simple mechanical handling are the main advantages. The case can be easily connected (230 V_{AC}) and has numerous ways of being mounted at the wall, at the pole in a vehicle etc..

The two outdoor versions provide a standard RS232/RS485 interface or standard Ethernet + WiFi connections. The Ethernet/WiFi interface of the Controller makes the flexible linking of existing IT infrastructures in the company possible. The integration into business applications is ensured by the available Z-Edgeware (S3135-B200). The Controller can be supplemented with GPS and GPRS as an option.



Applications

Asset Tracking & Supply Chain

- Logistics
- Defense
- Airports / Ports
- Transport (Train/Trucks)
- Automotive
- Hospitals

People Safety

- Fire Brigades
- Hospital / Care Homes
- Mining and Milling

Further more applications

- Access Control (long range)
- Intrusion Detection for Security
- Cold Chain

Ordering Numbers

1x Z-Controller serial Outdoor	S3135-H101
2x Z-Controller serial Outdoor	S3135-H102
1x Z-Controller WIFI Outdoor	S3135-H201
2x Z-Controller WIFI Outdoor	S3135-H202

Direct Contact

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Technical data

Dimensions (L x W x H)	400 x 255 x 156 mm
Power	230 VAC outdoor accredited, excess voltage category II
Frequency Band	2.400 GHz ~ 2.483 GHz worldwide unlicensed ISM band
Temperature	Operating -10°C ~ 60°C Storage -25°C ~ 65°C
Safety	EN 60950-1 EN 50371
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 Outdoor Case plastic, Controller housing metal	IP55

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