



Z-Controller WiFi/LAN

for active RFID

Description

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 and Controllers.

Datasheet



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.

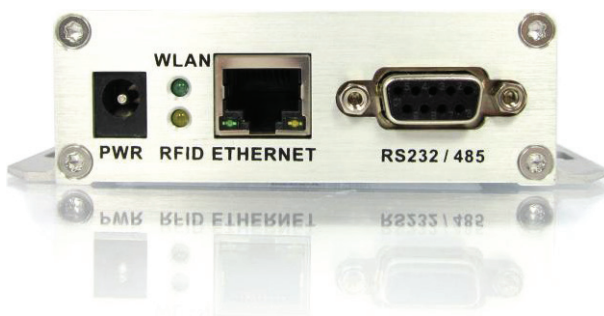
Several topologies are available – from simple star networks to complex clusters – for operation in dense Controller mode.

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.

A Standard RS232/RS485 interface + Ethernet + WiFi are provided.

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.



Technical data

Dimensions (L x W x H) 126 x 104 (82.5) x 28 mm		Frequency Band worldwide unlicensed ISM band 2.400GHz ~ 2.483GHz
Temperature IEC 60068-2-14 (Na) Operating -20°C to ~+65°C Storage -40°C to ~+70°C		Safety EN60950-1 EN50371
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 IP50, metal housing (other IP on request!)
Power Supply		6 VDC, 50-700mA
Network Interface		Wireless 802.11b/g and 10/100 Ethernet

Applications

Typical Applications			
Logistic	Automotive	Hospital / Care Homes	Cold Chain
Defence	Hospitals	Mining and Milling	
Airports / Ports	Museums	Access Control (long range)	
Transport (Train / Trucks)	Fire Brigades	Intrusion Detection for Security	

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