Communication interfaces

Z-LINK1

869 Mhz Radiomodem with RS232/RS485 interface and Mesh Network Capability



869.4 - 869.650 MHz Band

Half-Duplex communication

RS232 / R485 interface

Mesh Network Capability

ModBUS RTU protocol

Transmission in open field up to 400 m

Irradiated power of 20 mW

Transmission data speed 1.200..115.200 bps





869 MHZ RADIOMODEM WITH RS232/RS485 INTERFACE AND MESH NETWORK CAPABILITY



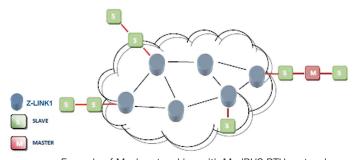


Z-LINK1 is a 869 MHz radio device suitable to establish a wireless Modbus communication. The device is able to manage different and separated ModBUS networks, even through MESH networks ensuring a long and reliable coverage because structured in interconnected nodes.

TECHNICAL FEATURES

ILUIMIUAL I LATUNES	
GENERAL DATA	
Power supply	1040 Vdc; 1928 Vac
Power Consumption	1W @ 12 Vdc
Isolation	1.500 Vac
Status indicators	Power supply, Error, Data Transmission / Reception
Connectors	RJ10 terminal for RS232 serial port jack stereo terminal for programming Terminal for antenna IDC10 connector suitable for remote I/O's linking Screw terminals, 3 way
Settings	EASY SETUP (software)
Mounting	DIN 35 mm rail guide
Hot swapping	yes
Protection degree	IP20
Working Temperature	0+55°C
Dimension (w x h x d)	17,5 x 100 x 112 mm
Weight	200 g
COMMUNICATION	
Interfaces	N°1 RS232, N° 1 RS485
Protocol	ModBUS RTU
Speed	1.200115.200 baud
Connectivity	32 nodi
Modulation	GFSK
Functioning	Half-Duplex communication
Irradiated power	20 mW
Coverage	400 m in open field with PER<10-3 @ 57.6 kbaud (fixed conditions in open area with 2 m of antenna)
Class	2
Frequency Band	g3, annexed 1 ERC 70-03 (869.4 MHz - 869.650 MHz)
STANDARD	
Certifications	CE, ETSI
Norms	ETSI EN 300 220-2 V2.1.2 (2007-06) ETSI EN 301 489-3 V1.4.1 (2002-08) CEI EN 61010
Directives	Radio and telecommunications terminal equipment directive 99/5/ EC Electromagnetic compatibility directive 2004/108/EC Low Voltage equipment directive 2006/95/EC

APPLICATION EXAMPLE



Example of Mesh networking with ModBUS RTU protocol

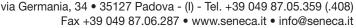
ORDERS CODE

Code	Description
Z-LINK1	869 Mhz Radiomodern with RS232/RS485 interface and Mesh Network Capability

ACCESSORIES AND SOFTWARE









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