

Communication interfaces

Z-LINK1-NM

869 Mhz Radiomodem with RS232/RS485 interface



869.4 – 869.650 MHz Band

Half-Duplex communication

RS232 / R485 interface

ModBUS RTU protocol

Transmission in open field up to 400 m

Irradiated power of 20 mW

Transmission data speed 1.200..115.200 bps

Signal repetition

Z-LINK1-NM

869 MHz RADIOMODEM WITH RS232/RS485 INTERFACE



Z-LINK1-NM is a 869 MHz radio device suitable to establish a wireless Modbus communication. The device is able to manage different and separated ModBUS networks.

TECHNICAL FEATURES

GENERAL DATA

Power supply	10..40 Vdc; 19..28 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

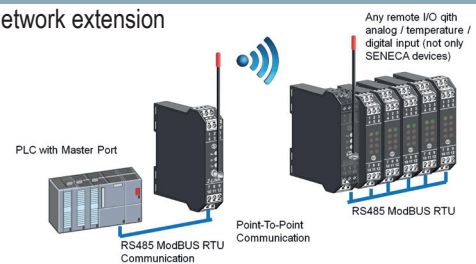
Interfaces	N°1 RS232, N° 1 RS485
Protocol	ModBUS RTU
Speed	1.200...115.200 baud
Connectivity	32 nodes
Modulation	GFSK
Operating mode	Half-Duplex communication
Irradiated power	20 mW
Coverage	400 m in open field with PER<10-3 @ 57.6 kbaud (fixed conditions in open area with 2 m of antenna)
Frequency band	g3, annexed 1 ERC 70-03 (869.4 MHz – 869.650 MHz)

STANDARD

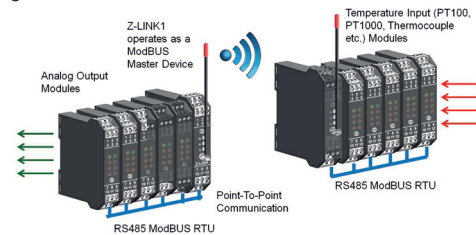
Certifications	CE, ETSI
Norms	ETSI EN 300 220-2 V2.1.2 (2007-06) ETSI EN 301 489-3 V1.4.1 (2002-08) CEI EN 61010
Directives	Radio and telecommunications terminal equipment directive 99/5/EC Electromagnetic compatibility directive 2004/108/EC Low Voltage equipment directive 2006/95/EC

APPLICATION EXAMPLE

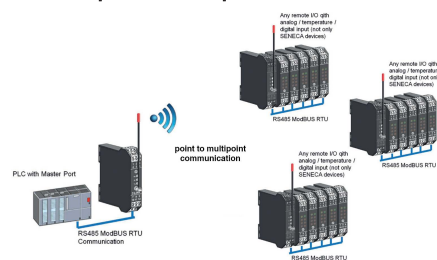
Serial network extension



Analog signal conversion and re-transmission



ModBUS connection point to multipoint



ORDER CODES

Code	Description
Z-LINK1-NM	869 Mhz Radiomodem with RS232/RS485 interface
PM001420	RJ10 / DB9F serial cable
Z-PC-DIN1-35	Power supply / data bus support for DIN rail, 1 slot, step 35 mm
Z-PC-DIN2-17.5	Power supply / data bus support for DIN rail, 2 slots, step 17.5 mm
Z-PC-DIN4-35	Power supply / data bus support for DIN rail, 4 slots, step 35 mm
Z-PC-DIN8-17.5	Power supply / data bus support for DIN rail, 8 slots, step 17.5 mm
Z-PC-DINAL1-35	Power supply / data bus support for DIN rail, head terminal + 1 slot, step 35 mm
Z-PC-DINAL2-17.5	Power supply / data bus support for DIN rail, head terminal + 2 slots, step 17.5mm
EASY SETUP	Programming software
A-DIR-10-869	Directive external antenna, 10 elements, 824-960 MHz
A-DIR-6-869	Directive external antenna, 6 elements, 824-960 MHz
ANT-LINK1-MG	Dual Band external magnetic antenna



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