Z-AIR

868 – 870 MHZ RADIOMODEM WITH BUILT-IN ANTENNA - OUTDOOR APPLICATIONS



- Coaxial dipole antenna embedded
- No signal loss between modem/antenna connection
- RS485 interface, max cable lenght 180 m @ 24 Vdc
- Sophisticated protocol: Broadcast, Point to Point, Point to Multipoint
- Configurable from a PC with dedicated software and USB converter (i.e. cod.S107USB)
- Power supply 8..36 Vdc
- Operating temperature -30..+70 °C
- Dimension l = 420 mm, Ø 40 mm
- Mounting bracket and screws in stainless steel
- Energy saving function
- Delivery with 5 Mt cable (other length on request)

SENECA

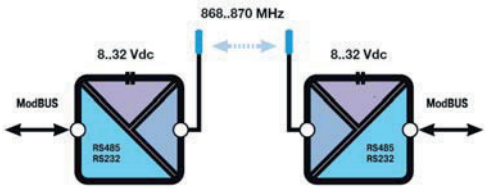
www.seneca.it

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000



Z-AIR

868 – 870 MHz RADIOMODEM WITH BUILT-IN ANTENNA



Z-AIR is a radiomodem suitable for outdoor applications, with built-in antenna (IP65 protection). The module works on the frequencies UHF 868 – 870 MHz, it's operative on 6 channels that can increase up to 20, utilizing the subrange canalized to 12,5 kHz or 25 kHz. This device is freely-use without any communication about the frequency use, according to the recommendation ERC70-3. Z-AIR can interface directly with any system with RS485 port and can work as digital repeater to reach peripherical units and remote centers placed several km far away.

TECHNICAL FEATURES

DATI GENERALI	
Power supply	8 – 36 Vdc
Operative band	868 – 870 MHz
Coverage	In open field and with antenna in dominant position it can reach up to 7 Km.
Data speed	4,8 kbps (@ 12,5 kHz of canalization); 9,6 kbps (@ 25 kHz of canalization)
Stability in frequency	± 1 ppm/°C
Antenna type	λ/2 integrated
Modulation	9K00F1D (@ 12,5 kHz of canalization); 18K00F1D (@ 25 kHz of canalization)
Operative temperature	-30..+70 °C
Dimensions	Ø 40 x L 320 mm
Protection degree	IP65
Receiver	Input sensibility < - 107 dBm
Interface	RS485 Data speed 1,2 - 38,4 kbps Asincronous communication Data format 1 Bit of Start 7 or 8 Bit of Data / 1 Bit di Parity 1 or 2 Bit of Stop / Parity / Simplex Half – Duplex operative way

CONFIGURATION	
Programming	Z-AIR Configuration Utility, downloadable freely from Seneca website www.seneca.it. The software configures basic and advanced parameters for each channel, besides to check the received radio signal level (RSSI), in the remote unit as well as local one.

STANDARD	
Approval	CE
Norms	EN 301 489 – 1 v 1.9.2 EMC Compatibility general directive EN 301 489 – 3 v 1.4.1 EMC Compatibility specific for Short Range Devices (SRD) EN 60950 – 1 Safety requirements plus Attachement 11 2004 EN 300 220 – 1 v 2.3.1 Short Range Devices specifications EN 61000 – 4 – 4

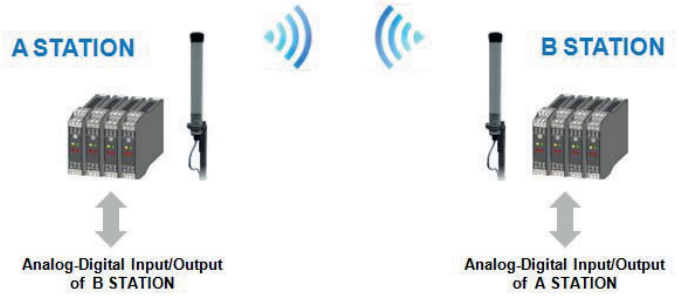
ORDER CODE

Code	Description
Z-AIR	Simplex/half duplex, 868 - 870 MHz, with built-in antenna and power supply at 8-36 Vdc
S107USB	RS485/USB Asynchronous Serial converter, handheld version

APPLICATION EXAMPLES

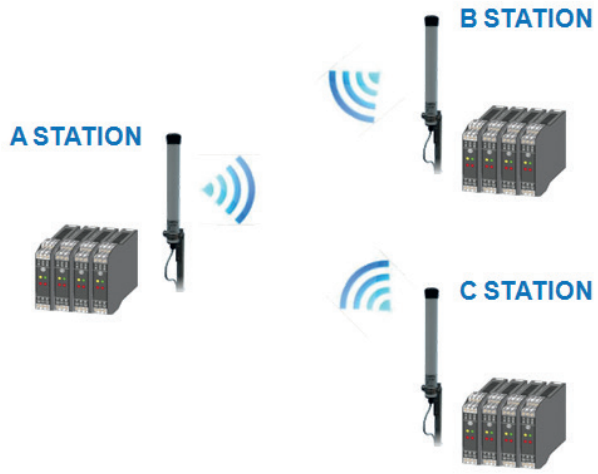
POINT-TO-POINT Transmission (I/O repetition)

Frequency 868 – 870 MHz | Speed 4,8 – 9,6 Kbps | Power 25 – 500 mW



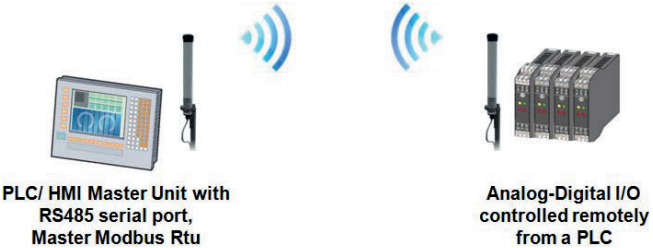
POINT-TO-MULTIPOINT Transmission (I/O repetition)

Frequency 868 – 870 MHz | Speed 4,8 – 9,6 Kbps | Power 25 – 500 mW



DATA TRANSMISSION FROM GENERIC MASTER MODBUS CONTROLLER

Frequency 868 – 870 MHz | Speed 4,8 – 9,6 Kbps | Power 25 – 500 mW



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