

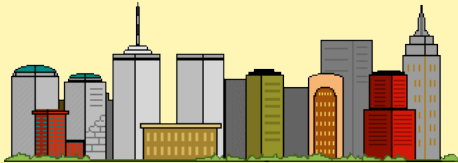
DC-RFL Radio modem

Transmission range according to topography



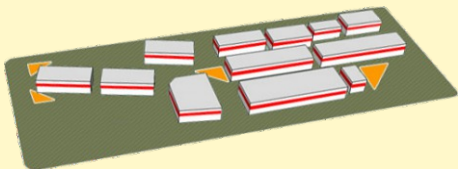
Up to 150m

High attenuation areas:
Basements, Mines, Tunnels
High mountains
Metal buildings...



Up to 500m

High density rate of buildings:
City center
Inside buildings
Great obstacles...



Up to 2000m

Medium density rate of buildings:
Industrial parks
Residential areas
Small obstacles...



Up to 60km

Low density rate of buildings:
Outdoor facilities
Isolated buildings
Direct view among antennas...



DC-RFL Radio modem

Main advantages

- ✓ Long range (up to 35 km without directional antennas, 60 km with directional antennas)
- ✓ Transparent to different communication protocols.
- ✓ Direct connexion to devices with USB, RS232 or RS485 interface.
- ✓ Use of free bands (ISM) without need to request permits.
- ✓ Ideal for IoT applications.
- ✓ Highly useful for in mobile applications.
- ✓ Wide range of power.

DC-RFL Radio modem

Main Features

DATA CHANNEL

Work modes: Half-Duplex / Simplex
 Data interface: RS232, RS485 and USB
 Data format: Configurable parity, data bits, stop bits
 Interface speed: Configurable between 1200-115200 bauds
 Protocol: Configurable

RADIO CHANNEL

Speed: Auto-ajustable
 Frequency: 868/915MHz
 Emission power: 100mW (maximum)
 Sensitivity: -148 dBm
 Impedance: 50 Ohms
 Antenna connector: Base SMA Female

POWER SUPPLY

Power supply: 9...30Vdc or 5Vdc USB powered
 Connector: Jack
 Protection: Resettable fuse
 Maximum consumption: 200mW

ENCLOSURE

Dimensions: 118x72x43mm
 Weight: 120g
 Waterproof: IP54
 Fixing system: DIN and OMEGA rail mount

ENVIRONMENT

Temperature: -30...60°C
 Humidity: 95% at 40°C (non-condensing)

Applications

- Automated metering
- Building and home automation
- Wireless alarms and security systems
- Industrial supervision and control systems (SCADA)
- Long range irrigation systems

E/S modules / Accessories

- Optoisolated digital inputs
- Digital outputs (relays)
- PWM control outputs (Triacs)
- Control of stepper motors
- Weight acquisition
- Antennas, cable extensions and masts
- Solar panels

Available architectures

A



B

