Spread Spectrum Radio (SSR) Specifications

- **Physical** -
  - **Dimensions**: 3 inches x 1.4 inches x 2.7 inches (AUX)
    3 inches x 1.4 inches x 3.5 inches (DIN)
  - **Mounting**: Bulkhead, DIN
  - **Connections**:  
    - RS-232, Female 9 Pin Subminiature D connector
    - Power & RS-485, Wire Range 28 – 14 AWG
    - Antenna, Reverse-polarity SMA
  - **Indicators**:  
    - Fail (Red)
    - Power / Transmit activity (Green).
    - Radio Receive activity (Yellow)
    - TX (Yellow) activity. RS232 or RS485
    - RX (Yellow) activity. RS232 or RS485
    - RS232 Mode
    - RS485 Mode

- **Electrical** -
  - **Supply Voltage**: 11 to 26 VDC
  - **Current draw**: Receive 100 mA, Transmit 250 mA max
  - **Frequency**: 902-928 MHz
  - **Modulation Type**: Spread Spectrum, Frequency Hopping Wide band FM.
  - **Channel Capacity**: 7 hop sequences sharing 25 frequencies.
  - **Transmit Power**: 140 mW.
  - **Receiver Sensitivity**: -110 dbm
  - **RS232/RS485 baud rate**: 9600 Default, 1200 – 57600
  - **RF Data Range**: 9600 baud, Fixed.
  - **Receive Buffer Size**: 16 bytes.
  - **Flow Control**: (RS232 Only) RTS/CTS Enabled, Default

- **Range** –
  - **NOTE**: Ranges specified are typical. Actual range will depend on several factors including antenna type, distance above ground, and presence of obstructions.
  - **Indoor**: 1500 Feet
  - **Outdoor Line of Sight**: 7 – 20 Miles

- **Environmental** -
  - **Operating Temperature**: -30 to 80 degrees C
  - **Operating Humidity**: 5 to 95%.

- **Warranty** –
  - **7 years, Transferable**