

Bluband Information and Frequencies

General

The BluBand employs a Micrel RF505 transceiver chip designed to operate in the 902 – 928 MHz ISM band.

The transceiver is configured with 25 channels of 1 MHz spacing starting at 903MHz.

The application only uses channel 13 at 915 MHz for all communications.

In normal use the BluBand is used in transmit mode only

Processor Clock – 19.0668 MHz (processor driven directly at this frequency – no PLL)

RF Clock – 16 MHz (915 MHz generated using VCO and phase detector)

Receiver uses zero IF type architecture.

Summary

TX/RX Frequency – 915 MHz

Max. TX Power - 0dBm (Transceiver RF output) limited by Firmware

Max. TX Duty Cycle - 0.041%

Min. TX Interval - 27 seconds

TX duration - 11ms