Operational Description

The Flex EX TX is a battery powered remote control unit. Button presses on the transmitter are detected by the unit's microprocessor. The microprocessor then communicates with the CC1020 radio via SPI and UART to transmit the button press data over the air. Data is FSK modulated on a carrier frequency from 436 MHz to 440 MHZ. Each transmission lasts 38ms and the overall RF duty cycle is 30%. The Flex EX TX has an internal wire loop antenna with approximately 3dB gain. No external antenna connection is possible.