

Description of the T24A-Pdual433 Transmitter

The T24A-Pdual433 transmitter operates at $433.92 \text{ MHz} \pm 75 \text{ KHz}$. The transmitter has different buttons that correspond to the different channels controlled by the receiver. Pressing button 1 causes the receiver to accept commands for the unit connected to channel 1. Pressing button 2 causes the receiver to accept commands for the unit connected to channel 2.

The receiver knows what channel to operate by the recognition code sent by the transmitter. Please note the transmitter only operates at 433.92 MHz, it is the recognition code sent by the transmitter that determines what channel the receiver will operate.

The RF section of this board is simply a Linx brand transmitter module connected to a Linx brand surface mount style antenna via a T pad to set the appropriate output power level.

The circuit board is double sided rigid, .062" thick FR4 material, with as much of the spare space filled with ground plane as possible.

The transmitted RF "codes" are on off keying (OOK) similar to the sequence used by Linx brand handheld transmitters.

The worst case on time over any 100ms interval is 45%.