

# FUNCTIONAL DESCRIPTION

## 1.0 DESCRIPTION

The DXT-604 is a four channel, key-chain type transmitter operating as a low power communication device. The center frequency is SAW stabilized at 315 MHz. The data output is DX Code formatted. The transmitter case is grey plastic and has four silicone buttons on the front; two gray, one black and one red.

The DXT-604 and the DX Code format are designed for use with Linear DX format 315 MHz receivers and consoles. Typical receivers that could be used with this transmitter are the DXR-701/2, DXSR-1504/8, DVS-1200/2400, Dual 824 and PERS-2400.

Each DXT-604 is programmed with a DX format factory ID code. The DX format code gives a over 1 million possible transmitter IDs.

Two lithium coin cell batteries, type 2016, are included. A two-ring key chain is included. The batteries should last about 5 years under normal use.

## 2.0 FUNCTION

The DXT-604 is activated by pressing any one of the four buttons. Until activation, microprocessor, U1, is in sleep mode. Upon activation, U1 wakes up and outputs signals to turn on the oscillator, Q1, and to provide DX code data to the RF amplifier, Q2. The frequency of oscillator Q1 is stabilized at 315 MHz by surface acoustic wave (SAW) resonator FR1. Data output at U1-3 modulates the base of transistor Q2 which transmits the pulse-modulated carrier via the antenna, E1.

## 3.0 SPECIFICATIONS

Product Identification:	DXT-604 four channel mini transmitter (SNT00411).
Encoding Format:	Linear DX Code.
Encoding Technique:	Transmitters are factory coded with a sequential transmitter ID number.
Number of Channels:	Four.
Timing:	Transmission stops after 10 seconds when button is held on. When momentarily activated the transmitter sends a minimum of 8 data words (800 milliseconds transmission).
RF Carrier Frequency:	315.00 MHz $\pm$ 250 KHz.
Power Requirements:	Two 2016, 3 volt batteries.
Visual Indicator:	None.
Operating Temperature:	0° C to +70° C. Tested -30° C to 70° C.

Size: 2.3" x 1.3" x 0.5"

Current Consumption: 8 mA (average) transmitting. <4 uA Standby.

All specifications are nominal unless otherwise noted.