



LLC

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Tim Johnson
U. S. Technologies
3505 Francis Circle
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Dear Tim,

This letter serves to confirm several of the operating parameters of the AX630 transmitter. The device is a spread spectrum transmitter that operates at a single frequency, namely 923.58 MHz. The device has an on-air data rate of 19.39 kb/s and utilizes ASK data modulation. The AX630 is a direct sequence spread spectrum transmitter that uses a BPSK spreading modulation with 63 spreading code 'chips' per data bit.

A spread spectrum receiver that receives transmissions from the AX630 has FCC ID L2V0536ASR2. The theoretical process gain of the transmitter is defined by the spread occupied bandwidth (2*chipping frequency) divided by the narrowest filter in the receiver:

$$10 \log (2.44\text{MHz} / 110\text{kHz}) = 13.46 \text{ dB}$$

Best regards,

David Alley
Axonn LLC