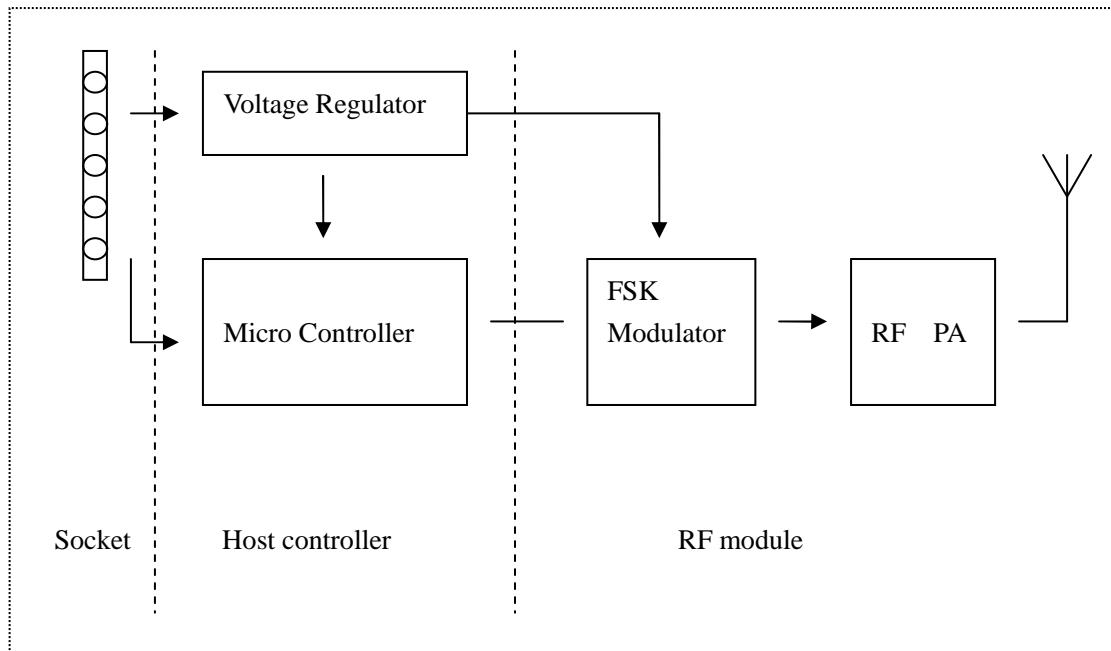


System Description

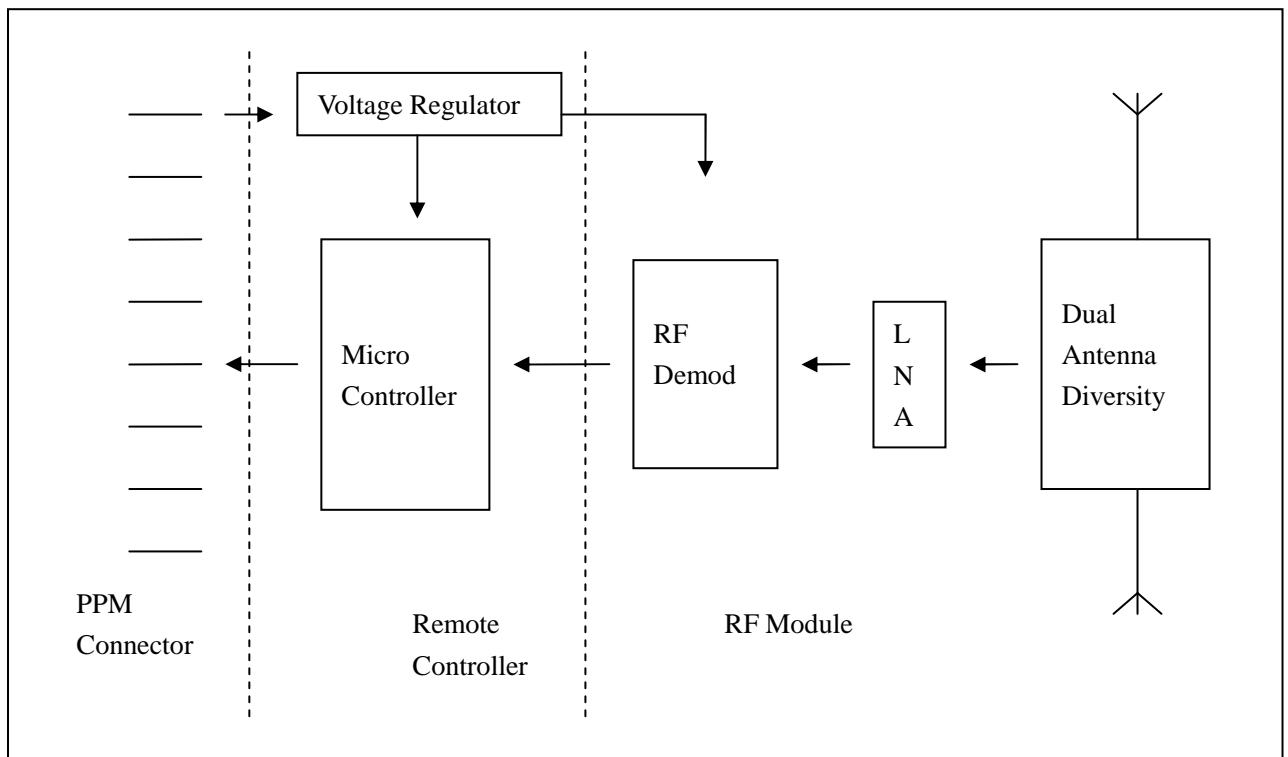
Transmitter Block Diagram:



Working description:

- 1, PPM signal is received by Micro Controller, and is formatted into digital bits;
- 2, System power is derived by a DC/DC convertor.
- 3, Digital bits is modulated by FSK Modulator CC2500 to digital waveforms at 2.4G ISM band;
- 4, Modulated digital signal is amplified by RF PA, presented at antenna.
- 5, The signal carrier is hopping 200 times/second.
- 6, The 2.4G band is divided into 250 channels.
- 7, Every product uses 50 channels among the 250 points, the 50 channels are selected by equal spacing.
- 8, The hopping carrier use one of the 50 channels, and the next channel is selected by random numbers.

Receiver Block Diagram:



Working description:

- 1, RF signal is amplified by LNA.
- 2, Amplified signal is demodulated by CC2500.
- 3, Demodulated bits is received by Micro Controller.
- 4, Micro Controller get PPM signal from the packets.
- 5, PPM signal is presented at each pin.
- 6, Demodulator is frequency hopping, using the same mechanism as the modulator.