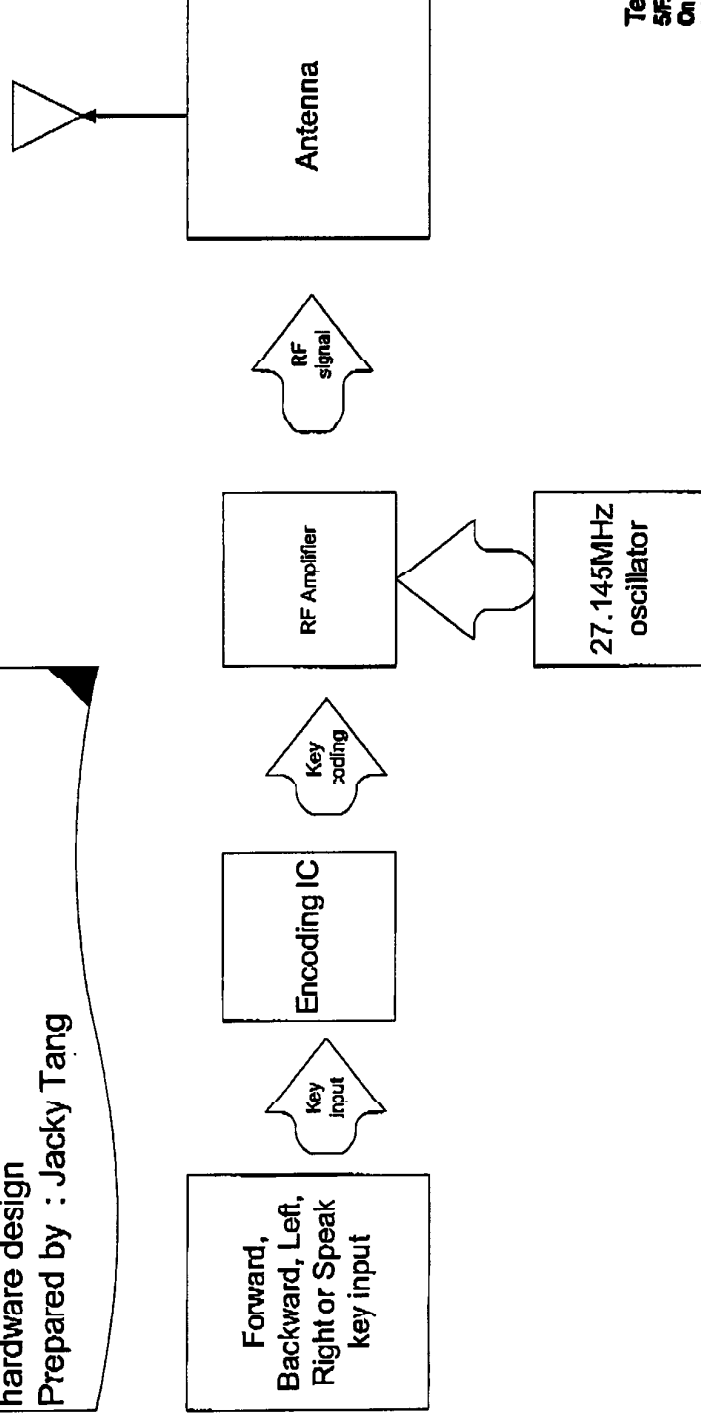


Project name: Robo Cub
Customer : The sharper Image
Date : 30 Aug, 2001
Subject : Block diagram for transmitter hardware design
Prepared by : Jacky Tang



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We certify that the above design of our frequency oscillator was controlled by the Crystal. The crystal quality was ± 50 ppm. For 27.145MHz oscillation, the bandwidth will not exceeded 200KHz.