

## RF CIRCUIT DESCRIPTION

The 6160RF wireless keypad contains several functions, such as keypad, panel interface, and LCD display, please refer to the Block Diagram ( EXHIBIT 2-3 ), and page 7 (RF CKT Page) of the Schematic ( EXHIBIT 2-2 ). Please note that some blocks contain reference to "868 Mhz" These parts are not used on domestically sold units. The RF section operates at 345 Mhz, and functions as follows:

The received RF signal enters the receiver through ANT1 & ANT2, of the switched diversity antenna system. The antennas are switched by SW2 under the control of the RF MICRO U16 , SAW FILTER FL3 improves the selectivity of the receiver, while LNA U74 improves the sensitivity. All other receive functions are handled by the SINGLE CHIP RECEIVER U19, including the phase locked L.O., who's FDE is Y3. The RX Data is fed directly into the RF MICRO for processing.

The transmitted RF signal is generated by a single phase locked chip U12 who's FDE is Y2. U12 is also amplitude modulated by the RF MICRO. CR19 etc., provides power level adjustment, and U13 acts as the PA. SW3 is the T/R SWITCH, sending the transmitted signal through FL3 for improved emissions, and then on to the diversity antenna system.