

The iKeyless LLC 661-0001 limited modular transmitter operates on manufacturer programmed fixed frequencies from 301-320 MHz, and at 433.9 MHz. It is built around the MICREL MICRF405 transmitter module, and is intended for use in a range of ASK keyless entry transmitters manufactured and produced solely by iKeyless, LLC. The MICRF405 is a RF transmitter IC designed for unlicensed ISM band operations. This modular transmitter employs only the ASK mode of the device, with on-chip PLL frequency synthesizer and power amplifier. The internal frequency synthesizer consists of a voltage controlled oscillator (VCO), a crystal oscillator, dual modulus prescaler, programmable frequency dividers and a phase-detector. The loop-filter can be internal or external. The output power of the power amplifier can be programmed to eight levels. A lock detect circuit detects when the PLL is in lock.