



RFHero Controls

YellowJacket Pro Transmitter RF Timing Controls



1. The YJPRO is operated via momentary pushbuttons that upon release of operator control will stop activation of the I/O with regards to that command.
2. The internal processor U1 PIC16F819 is programmed to maintain a pulse packet key signal with data for only 10 cycles beyond the last command input or button press.
3. The unit uses an internal coded 9% duty cycle or 1 cycle on and 10 cycles off. During the on cycle the transmitter engine (U4 TDA7100) is brought to operate from a minimal energy state for 40 msec.
4. During the off cycles the unit is completely asleep and no RF output is made.
5. All Active RF components U4, U5 (NPN Amplifier) follow the RF Enable signal generated by U1 and Q1,Q2 (NPN/PNP switch).
6. Following release of the I/O port for command the processor will send one full 10 cycles of transmission. The base transmission rate is 40ms on and 400 off. This would operate the system at 4400 ms or 4.4 seconds. The actual RF time on air with carrier would only be 9% of that total.

RF Enable
40 ms
RF Off
400 ms

