

2/4 Channels Keyfob Transmitter

Proprietary Protocol – 868.30 MHz
Cod. 3-2000912 (2 Ch.) / 3-2000912A (4 Ch.)

Description:

Proprietary protocol 2/4 channels RF transmitter, OOK modulation based on SAW resonator technology.
Ideal for remote control application. When a key button is pressed the device transmits a fixed frame data stream with a unique serial number associated to the transmitter.



Electrical Characteristics:

- OOK modulation
- Frequency = 868.30 MHz \pm 100 kHz
- Output Power = 3.0 mWatt ERP
- 12 Volt alkaline battery (V23GA) power supply
- Compliant to ETSI 300-220 and ETSI 300-683
- Operating Temperature -10°C \div +60°C

Mechanical Characteristics:

- Length = 70 mm
- Width = 40 mm
- Height = 18 mm
- Weight = 30 g

Proprietary Protocol Data Transmission

Baud rate and frame organization

The transmitter sends packets made up by a preamble, a header at zero level and 5 bytes of data. The baud rate is 2000 Hz, so the time base unit is 500 μ s.
The preamble is made up by 12 pairs of 1-0 bits so the preamble is a square wave at 1 KHz.
The header length is 4 ms; the data bits are made up by 3 time base units; every bit length is 1,5 ms so the frequency of data bits is 667 Hz.

Data contents

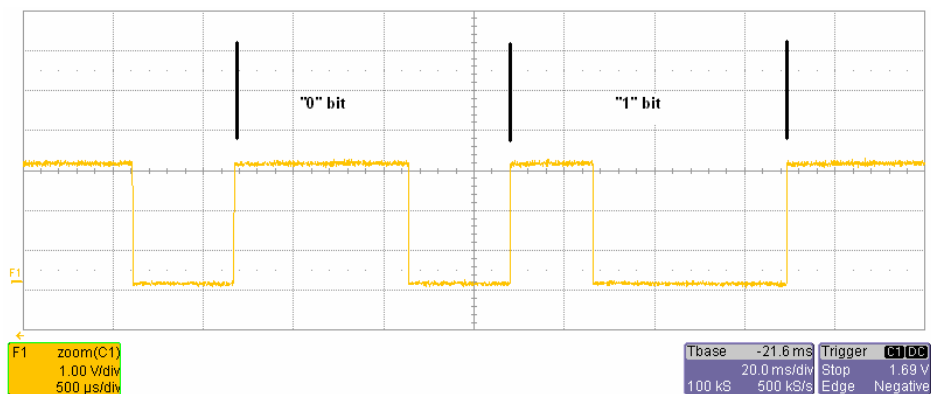
The frame is organized in the following manner:

- bytes 0,1: serial number;
- byte 2: data byte;
- bytes 3,4: CRC.

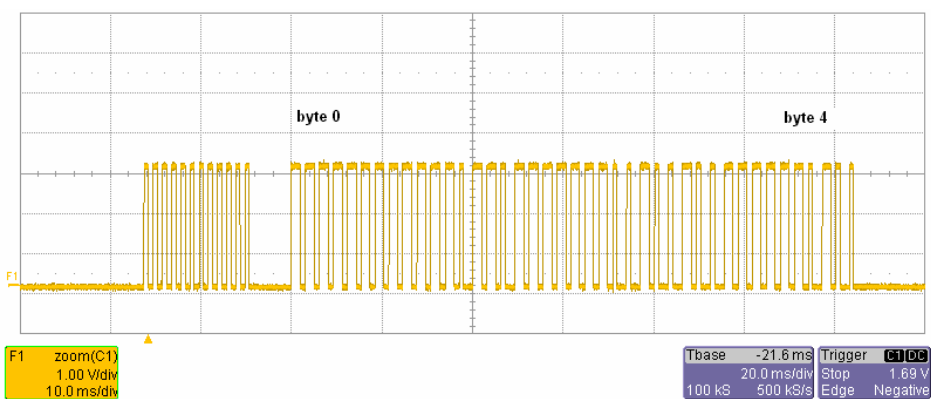


RF WIRELESS

Bit 0 / Bit 1 Format



Code Word Format



MIPOT S.P.A.
 Via Corona, n.5
 (Zona Ind.)
 34701 Cormons (GO)
 Italy
 Tel.+39 0481 630200 ra.
 Fax +39 0481 62387
 mipot@mipot.com