

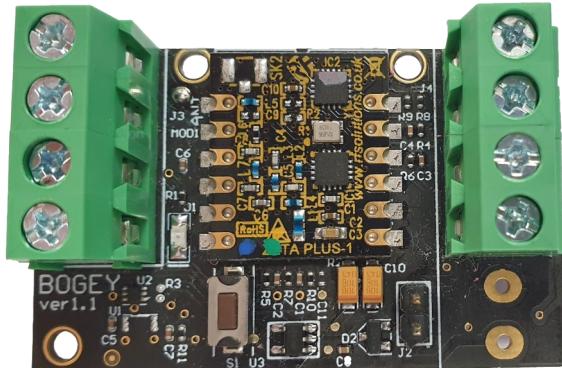
# BOGEYBOARD Transmitter



Turns any switch into a remote control!

## Features

- General Purpose RF Transmitter
- 4 x Simple Switch Inputs
- Range up to 1KM (+20dBm ERP)
- Momentary or Latch Switch Input
- Ultra low power Standby Mode
- Integral CR2032 Battery, or
- 4-24Vdc External supply
- LED TX Indication
- Compact - 49mm x 31mm



## Compatible with:

- RioT Remote Control
- ELITE Series
- TRAP Series
- HORNET-PRO Series
- MAINSLINK Series
- 725 Series

## Applications

- Remote Control
- Remote Networking
- Remote Switching
- Remote Traffic Lights
- Door bells / Buzzers
- Push buttons

## Description

The BOGEYBOARD is an innovative product which enables any Switch to be a remote RF transmitter. BOGEYBOARD is compact and self contained with an onboard battery, simply connect upto 4 close contact switches to operate.

Alternatively power can be from any 4-24Vdc source.

## Ordering Information

Part Number	Description
BOGEYBOARD-4T4	4 channel 433MHz transmitter
BOGEYBOARD-8T4	4 channel 868MHz transmitter
BOGEYBOARD-9T4	4 channel 918MHz transmitter



BOGEYBOARD-TX-4c

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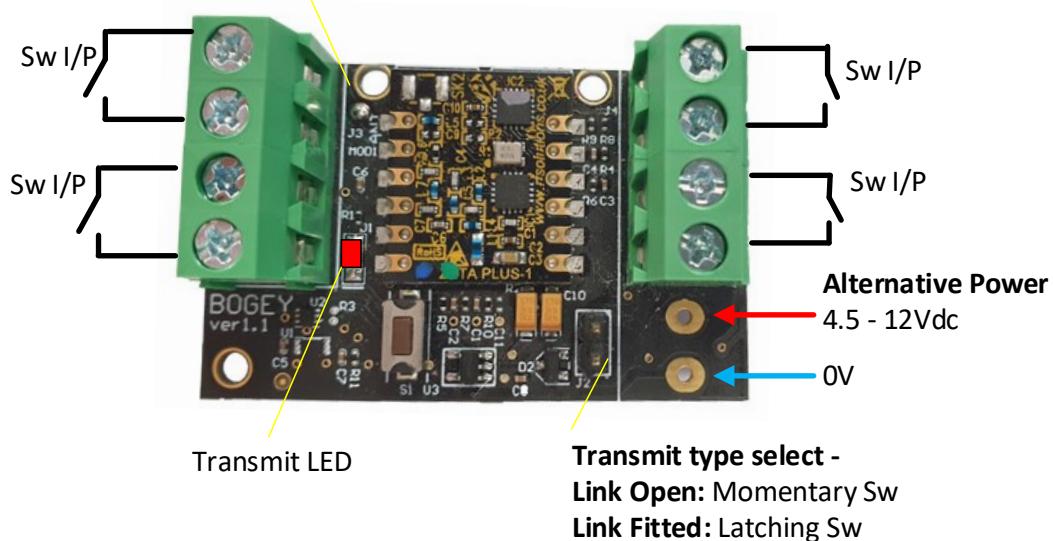
# BOGEYBOARD



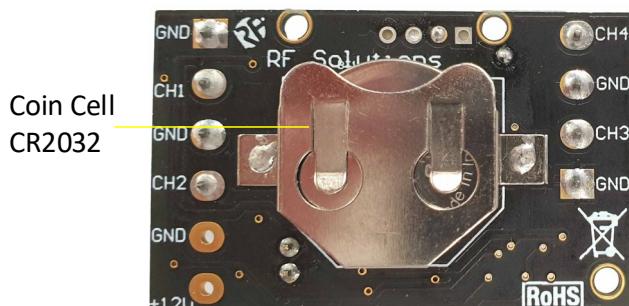
## Overview

BOGEYBOARD is supplied with a wire antenna using this it is possible to achieve up to 1KM range.

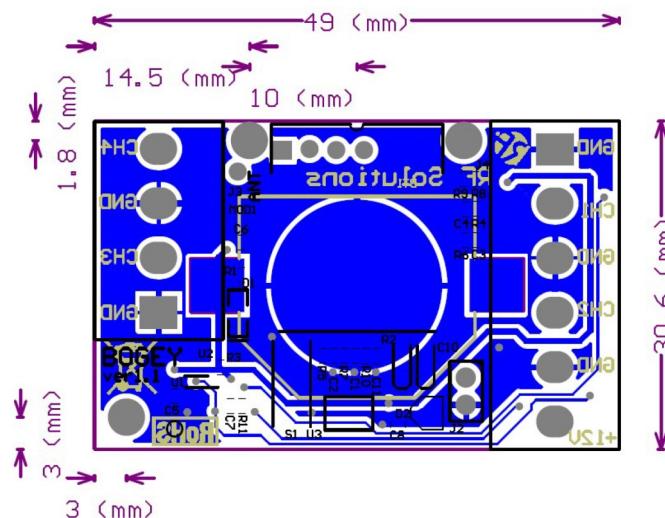
TIP: Minimise the length of wires between the board and your switch



Rear View



## Mechanical Detail





## Operation

The **BOGEYBOARD** will remain in a low power mode at all times when power is present and no inputs are active. When an input changes state, (Closes or Opens) BOGEYBOARD Transmitter will send an RF signal.

### Transmit Type select:

#### Latching Switch Operation (Jumper Link Open):

BOGEYBOARD transmits a brief RF signal only when the input is activated or relaxed (State Change). Using this mode only consumes power when switch changes state.

#### Momentary Switch Operation (Jumper Link Connected):

BOGEYBOARD will continuously send an RF signal for as long as the switch input is activated. Using this mode consumes power for as long as the switch is active.

### LED:

Indicates RF Activity

### Power Supply

Power can be from the CR2032 supplied or from an external 4.5—12Vdc power source.

Note: When powered from an external power source remove the CR2032!

### Battery Life Expectancy Calculation for CR2032

CR2032 provides 220mAH of capacity

Current when Transmitting = 85mA

Therefore total continual Transmit time per battery = 2.5hours

For the standard Transmit time of 22mSecs and allowing for 70% of the useable battery

We can expect to achieve 300K Transmissions

At 10 transmissions per day equates to 84 years

At 100 transmissions per day equates to 8years!

Note :The shelf life of a CR2032 is about 10 years,

## Technical Specifications:

Operating temperature: 0 - 55°C, Storage Temperature: -10 - 70°C

Supplied Battery Li-ion CR2032

Electrical Characteristics	Min	Typical	Max	Units
Internal Supply Voltage (CR2032)	1.8	3	3.3	Vdc
External Supply Voltage*	4.5		24	Vdc
Antenna Output Lead Impedance		50		Ohms
Time from Input Active to Receiver Output Active		25		ms
868MHz Version				
Supply Current: Quiescent		500		nA
Supply Current: Transmitting Data		85	110	mA
Transmit Power		+20		dBm
RF Transmit Packet Time		22		mSecs

\* When using external supply Remove the internal CR2032!

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