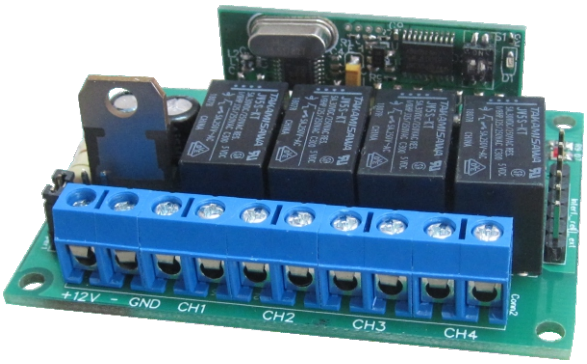
Radiocontrolli
Wireless Modules

Receiver Unit 433,92MHz 4 channels Relay Output



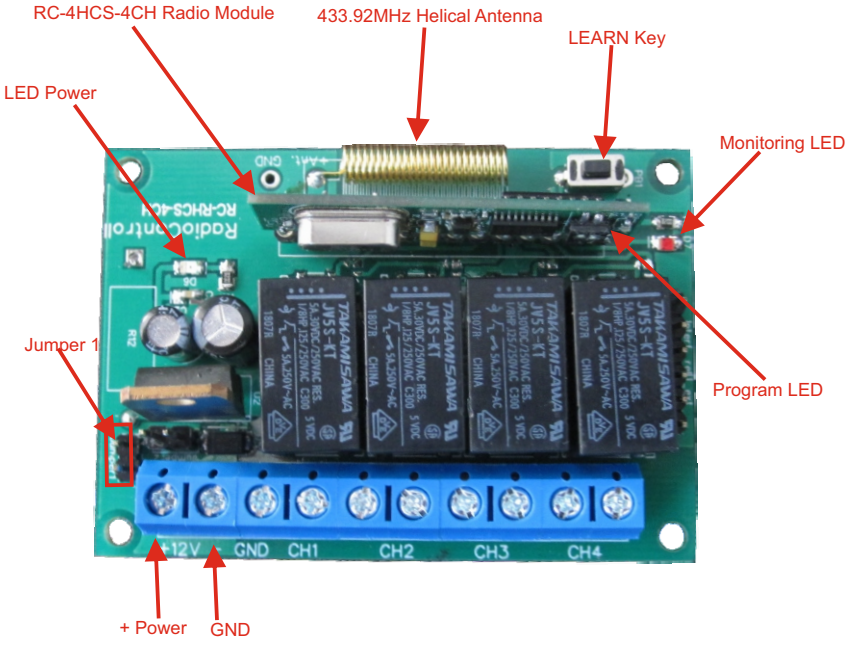
RC-RHCS-4CHB is a 4-channel receiver unit operating at a frequency of 433.92MHz with ASK / OOK modulation. It is equipped with a superheterodyne radio module.
It can be used with all the remote controls that use the RT1530 and EV1527 decoding (Learning Code).
Or it can be used with remote controls with Keeloq HCS encoders programmed with RadioControlli code.
For more information you can consult the datasheet of the module denominated **RC-RHCS-4CH.**

Power Supply
The board operates at 12 volts.
The "Jumper 1" can be used to switch the power supply on and off.
As soon as the card is powered up, the green LED "LED Power" lights up.

Compatible remote controls
The board can be used with the RCTV-01 series RadioControlli remote controls and with all the remote controls based on the RT1530 and EV1527 encoders.
It can also be used with Keeloq HCS remote controls programmed with RadioControlli manufactore code.

Operating mode
The 4 on-board relays can operate monostable or bistable mode, depending on the needs.

Default configuration:
- Remote controls with encoder EV1527
- Monostable mode operation



Technical Characteristic

	Characteristic	MIN	TYP	MAX	UNIT
V_{cc}	Power Supply	10	12	15	Vdc
I_s	Current Consumption (standby mode)		20		mA
I_s	Current MAX (*)			160	mA
F	Frequency		433.92		MHz
D	Relay Contact Current			5 A / 30 Volt DC	
S	RF Sensitivity		108		dBm
B	3dB Bandwith		600		KHz
TE	Operating Temperature Range	-25		+80	°C

(*) 4 active relays simultaneously

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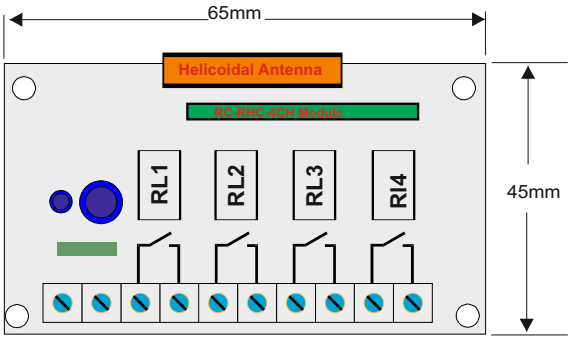
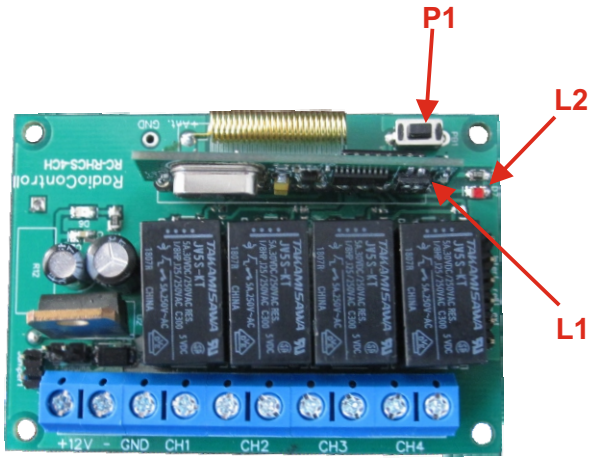
Mechanical Dimensions



Hole size = 3mm
Max height = 21mm



Compatible Remote Controls

RCTV-01

EV1527 Encoder

RCTV-02

HCS Keeloq Encoder

Learning Procedure :

1) Push LEARN button about 1 sec.
2) The Red LED 1 keep lighting, press any button of remote for learnig
3) Red LED 1 flash once, means learning success
4) Repeat the step for more remotes learning.
5) To end the learning procedure, press the P1 key again.
It is possible repeat this procedure up to 20 transmitters.

Erasing Memory Procedure :

1) Push LEARN button about 3 sec.
2) The Red LED flash 3 times, means all learned remotes was deleted.

Operation :

Pressing the button on the remote control, the corresponding relay will be actived.
Each activation is monitored with the lighting of the L2 led.

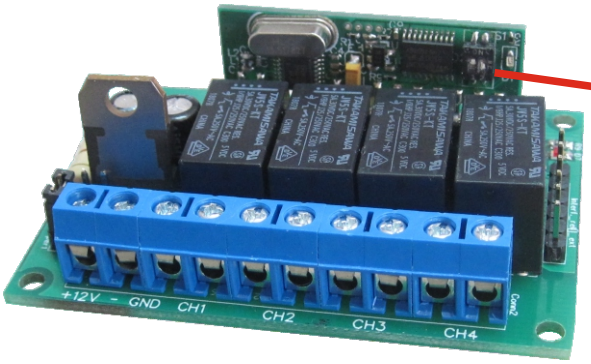
Warnings

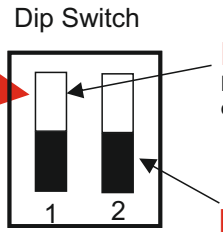
In the case of housing the board inside a metal container, it's necessary to mount another type of antenna.

Functionality Configuration

The configuration operations must be carried out when the board is not powered.

It's necessary to operate on the dip-switch on the radio module.



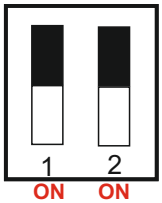


Dip Switch N.1
Determines if the system work with RT1530/EV1527 encoding or HCS encoding

Dip Switch N.2
Determines the modality of the work :

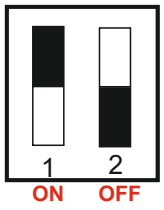
- Monostable mode
- Bistable mode

Possible configurations :



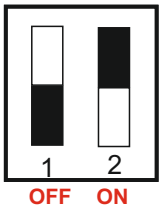
The system work with **RT1530** Encoding and **EV1527** Encoding

The modality is : **BISTABLE** (the receiver activies the output and remains active as long as it receives frames from one of the stored remote controls).



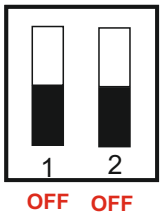
The system work with **RT1530** Encoding and **EV1527** Encoding.

The modality is : MONOSTABLE (the receiver change the status of the output at each pressure on the remote controls).



The system work with **HCS300** Encoding

The modality is : **BISTABLE** (the receiver activies the output and remains active as long as it receives frames from one of the stored remote controls).



The system work with **HCS300** Encoding

The modality is : **MONOSTABLE** (the receiver change the status of the output at each pressure on the remote controls).

Electrical Schematics