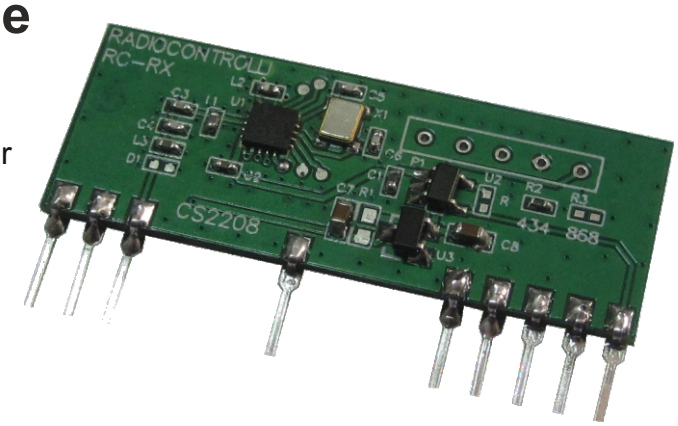
Radiocontrolli
Wireless Modules

AM Superhet Receiver Module



is an AM Radio Receiver Module with PLL Synthesizer and Crystal oscillator.
Single line package with power down mode.

Standard versions:
RC-RXASK-433 =====> Frequency 433.92MHz
RC-RXASK-868 =====> Frequency 868.35MHz

Available versions :
RC-RXASK-433.42 ===> Frequency 433.42MHz
RC-RXASK-434.15 ===> Frequency 434.15MHz
RC-RXASK-434.50 ===> Frequency 434.50MHz
RC-RXASK-868.95 ===> Frequency 868.95MHz
RC-RXASK-869.50 ===> Frequency 869.50MHz

Possible versions :
On request we can customize the frequency value :

- *From 433.00 MHz to 435.00 MHz with step of 0,01 MHz*
- *From 867.00 MHz to 870.00 MHz with step of 0,01 MHz*

Applications :

- Wireless security systems
- Home and building automation
- Automatic Measure Reading
- Wireless Sensor Network

Technical Characteristics

Characteristics		MIN	TYP	MAX	UNIT
V_{CC}	Supply Voltage	4.5		5.5	Vdc
I_s	Supply Current (Operation mode)		4.0	5.0	mA
I_s	Supply Current (Shut down mode)			100	nA
F	Frequency		433.92(*)		MHz
D	Max Data Rate			4.8	Kbit/s
S	RF Sensitivity		-110		dBm
B	3dB Bandwith		± 150		KHz
L	Level of emitted spectrum			70	dBm
T	Power Up Time (from Power to stable data)			8	ms
T1	Power Up Time1 (from PD to stable data)			5	ms
TE	Operating Temperature Range	-20		+70	°C

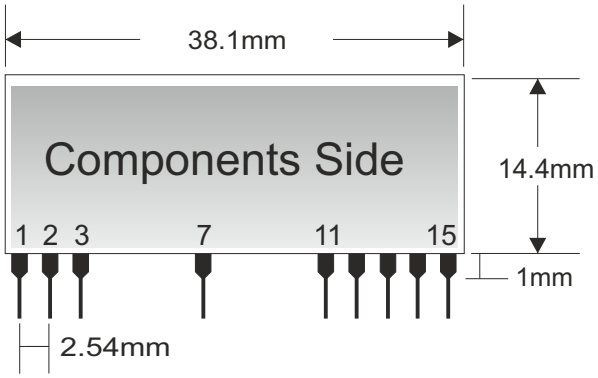
(*) Versione denominated RC-RXASK-433

Pin Description

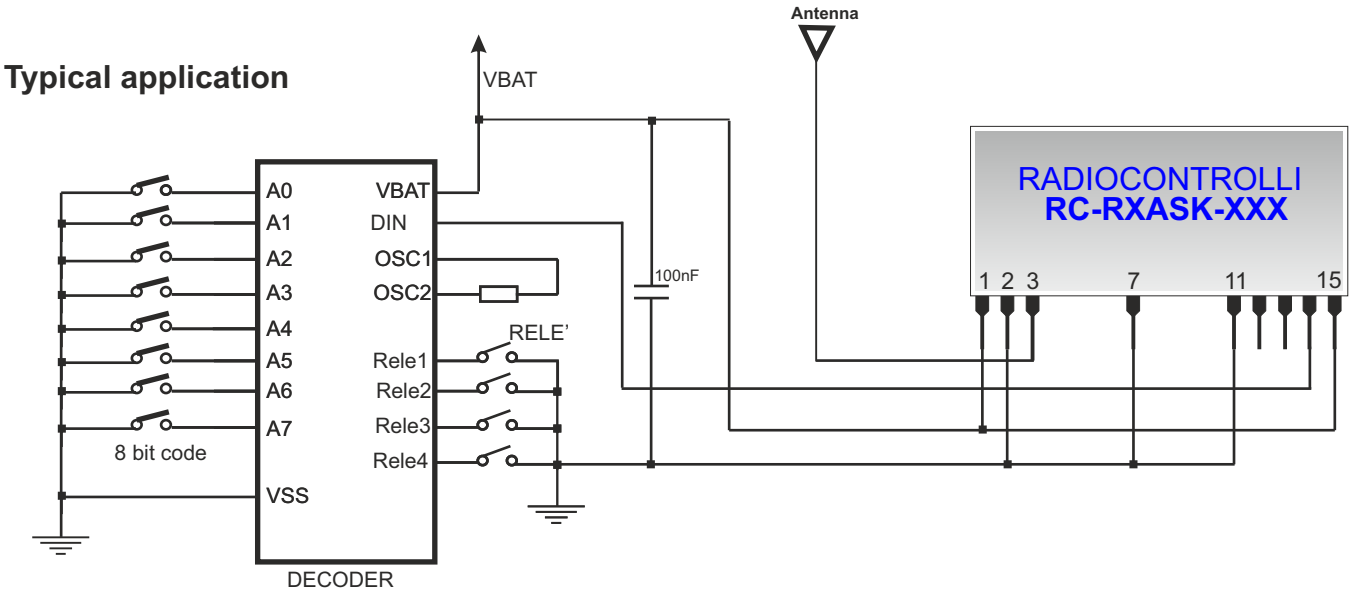
Pads	Name	Description
1	VCC	Vcc Power
2	GND	Ground
3	IN	Antenna
7	GND	Ground
11	GND	Ground
12	NC	Not connected
13	NC	Not connected
14	OUT	Data Out
15	PD	Power down

PD = LOW ----> RX OFF
PD = HIGH ----> RX ON

Mechanical Dimensions

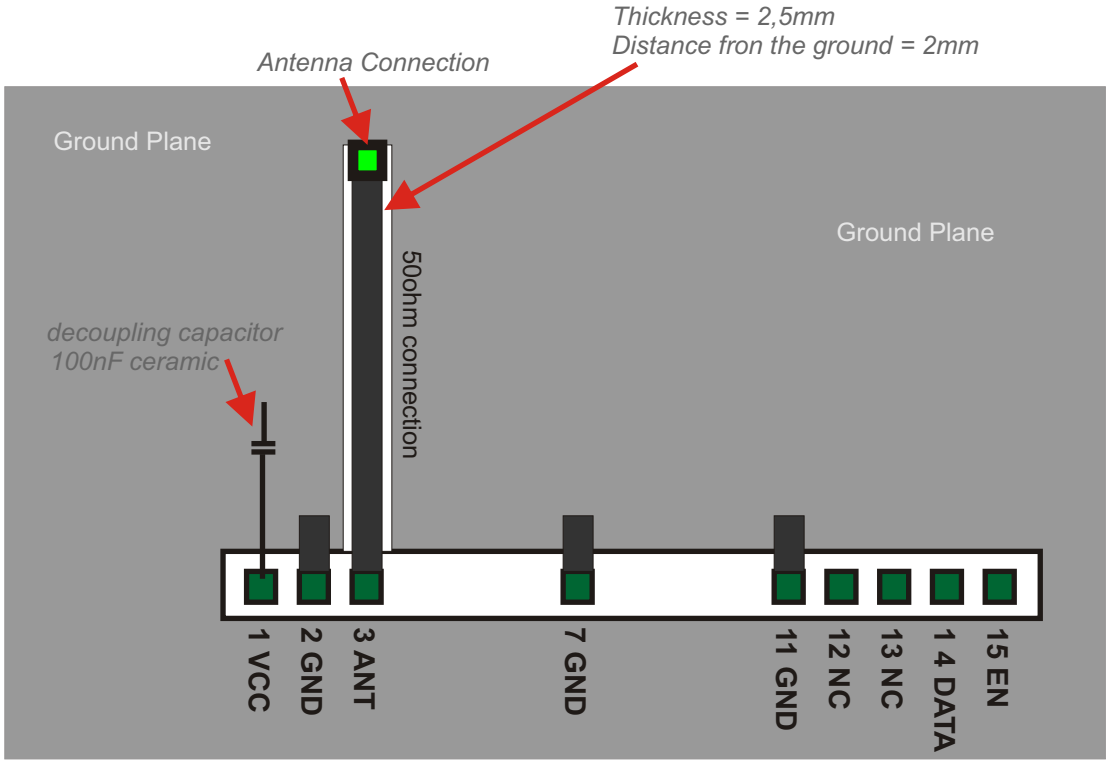


Typical application



Receiver Connection Guideline

1) The receiver module must be powered from a regulated voltage.
2) In proximity of the receiver module it is necessary to insert a ceramic decoupling capacitor (100nF).
3) The ground plane must be completely encircle the entire receiver in particular the area of the Antenna connection (we recommend a minimum of 40-50mm radius).
4) The 50ohm connection should be as short as possible.
5) For a pcb with 1.6mm thickness, the track “50ohm connection” must be 2.5mm, this track should be separated from the GND for 2mm.
6) On the opposite side of 50ohm connection should be a ground plane.
7) Keep the receiver module away from other components for more than 5mm.
8) Close to the 50ohm connectione there must be no component at least for 5mm.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Modules ***category:***

Click to view products by Radiocontrolli ***manufacturer:***

Other Similar products are found below :

2221706-1 RAD-900-DAIO6 RC-WLE5-868-HA RFM219BW-868S2 H330 A30-00 RC-CC1101-SPI-868 RC-CC1101-SPI-SMT-434 RC-CC1101-SPI-SMT-868 RC-CC1310-868 RCQ2-434 RCS1K-868 RCTX-434 RCTX-434-L CTU-D2R CTU-D5N RFM02 868D RFM02 868S2 RFM110-433S1 RFM119S-433S1 RFM119W-433S1 RFM210LCF-433S1 RFM219SW-868S1 RFM23B-868-D RFM42B-868-D RFM69HW-868S2 RFM98PW-433S2 RFM98W-433S2 CX-SMA174MMCX-219 HM-T433 HM-T868 HM-TRLR-S-433 HM-TRP-RS485-433 650200527G 650200819G 650200901G 650200997G 650201025G 650201034G 650201133G 650201140G 650201182G 650201259G 650201430G 650201431G NANO-MS PAC-DUG COTER-E4I COTER-ECI RFM02-433-D RFM65W-868S2