

### Features

- 1, Complete UHF transmitter
- 2, Frequency 315MHz or 433.92MHz
- 3, Data rates up to 10kbps ASK
- 4, Output Power up to 10dBm
- 5, Low voltage operation (Down to 1.8V)
- 6, Power down modes and wake-up functions to reduce power consumption

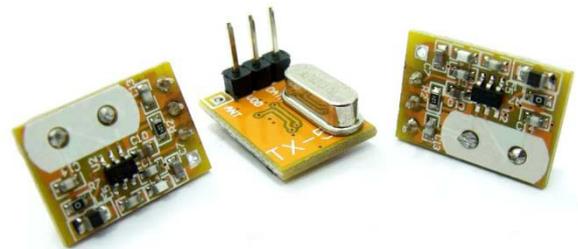
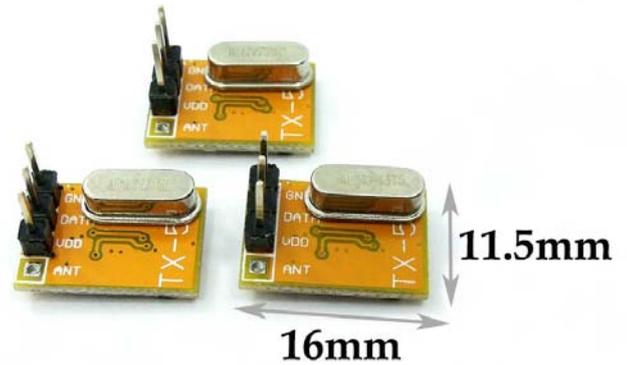
### Specifications

#### Electrical Characteristics

Power supply :	1.8 to 3.6V
RF Frequency:	315MHz or 433.92MHz
Mark supply current:	12.5mA
SPACE supply current:	3mA
Standby current:	1uA
RF Output power:	10dBm
Data Rate:	Max 10kbps
Under Voltage Lock Out:	1.6V

#### Environmental

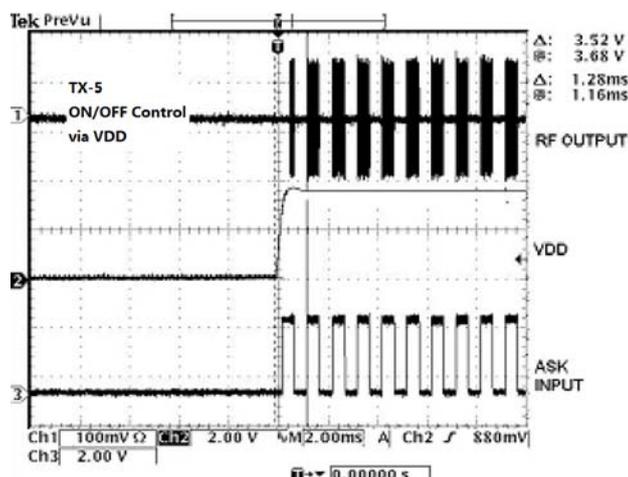
Operation Temperature :	0°C to 55°C
Operating Humidity :	0 to 90% non-condensing
Storage Temperature :	-20°C to 65°C



The TX-5 is a high performance , easy to use , signal chip ASK Transmitter module for remote wireless applications in 315MHz or 433.92MHz , this transmitter module has three strong attributes:

- Power delivery : Max delivering +10dBm into a 50Ohm load.
- Operation voltage : Operates from 1.8V to 3.6V.
- Operation temperature : -20°C to 65°C

The TX-5 transmitter module is ideal for industrial and consumer applications where simplicity and form factor are important. For enhanced power saving , TX-5 includes power managing function , the power managing function enables transmitter activated as high transient data input trigger signals are received , The transmitter will also be automatically switched off if there are no data input transients for a time exceeding approximately 75mS.



#### Output Power ON-OFF Control

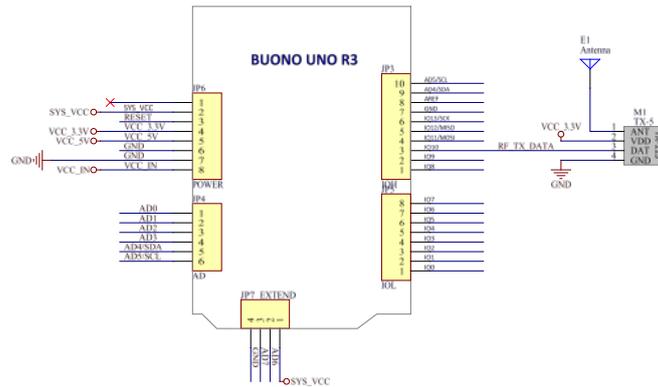
There are three ways to enable the PA output power:

- By supplying the ASK signal with VDD applied continuously, resulting in a Mark and Space RF output condition.
- Involves applying both VDD and ASK synchronously.
- Using Power Manager function.

The second method allows for longer battery usage since the battery is disconnected during non-activation, left picture shows the RF output time response since VDD and ASK are applied to the TX-5 module, the RF output response , as a function of VDD , is typically less than 1.25mSec , this measurement was done using the TX module with BUONO UNO R3.

Note: The ASK signal should never be applied before VDD.

### Application with BUONO UNO R3:



### rc-switch

The rc-switch lib allow you Use your Arduino or Raspberry Pi to operate this module , download:

<https://github.com/sui77/rc-switch>

Arduino Demo Code:

```

1 #include <RCSwitch.h>
2 RCSwitch mySwitch = RCSwitch();
3
4 void setup() {
5
6   Serial.begin(9600);
7   // Transmitter is connected to Arduino Pin #10
8   mySwitch.enableTransmit(10);
9
10 }
11
12 void loop() {
13
14   /* See Example: TypeA_WithDIPSwitches */
15   mySwitch.switchOn("11111", "00010");
16   delay(1000);
17   mySwitch.switchOn("11111", "00010");
18   delay(1000);
19
20   /* Same switch as above, but using decimal code */
21   mySwitch.send(5393, 24);
22   delay(1000);
23   mySwitch.send(5396, 24);
24   delay(1000);
25
26   /* Same switch as above, but using binary code */
27   mySwitch.send("00000000001010100010001");
28   delay(1000);
29   mySwitch.send("00000000001010100010100");
30   delay(1000);
31
32   /* Same switch as above, but tri-state code */
33   mySwitch.sendTriState("0000FFF0F0F");
34   delay(1000);
35   mySwitch.sendTriState("0000FFF0FF0");
36   delay(1000);
37
38   delay(20000);
39 }

```

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This module have 315M and 433.92MHz two frequency for user choice , the Receiver can be using RXB61.