

## CTI-TX1A100 RF Transmitter Module

CTI-TX1A100 ASK RF Transmitter Module is designed for wireless applications.

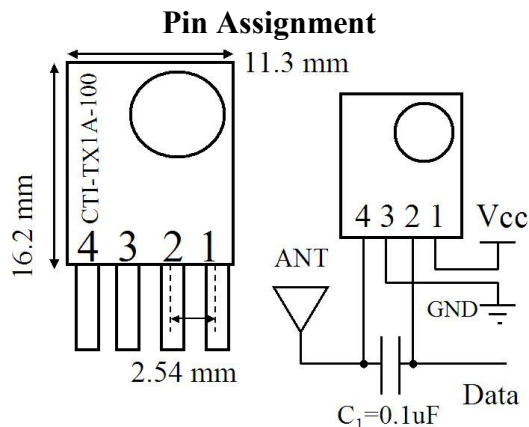
- Bit rate 1 kbps (K bits per second)
- Small footprint 2.4 cm<sup>2</sup>
- Stable working frequency in its class with SAW technology ( +/-75 KHz)
- Distance up to 1000 feet
- Wide range of working power supply voltage: 3.0 – 12.0 VDC

Applications:

- Wireless entry/access control
- Wireless sensory network
- Wireless consumer/appliances applications
- Industrial process control
- Intelligent home applications
- Security applications
- Automobile applications

	Symbol	Test Condition	Parameter			
			Min	Typical	Max	
Frequency	F <sub>c</sub>		315 MHz	430.5 MHz	433.92 MHz	
Modulation	ASK					
Transmission Power		9V/50Ω		13 dBm		
Modulation Frequency				2.4 kHz		
Frequency drafting range	ΔF <sub>c</sub>			+/- 75 KHz		
Current	I <sub>RC</sub>	12V 6V 3V		10 mA 6 mA 3.2 mA	15 mA	
Voltage	V <sub>CC</sub>		3 V		12 V	
Temperature (Operating)	T <sub>C</sub>		-40 C (Storage -60 C)		85 C (Storage 125C)	
Transmission bit rate				1 Kbps		

Table 1. Electrical Characteristics

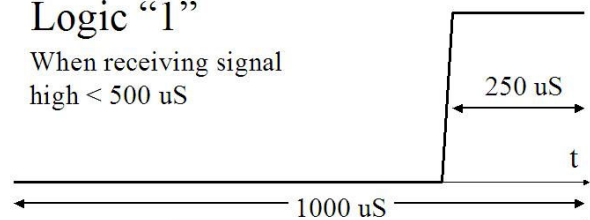


Pin Number	Label	
1	V <sub>CC</sub>	Power
2	DATA	Data Input
3	GND	Ground
4	ANT	Antenna

Table 2. Pin Assignment

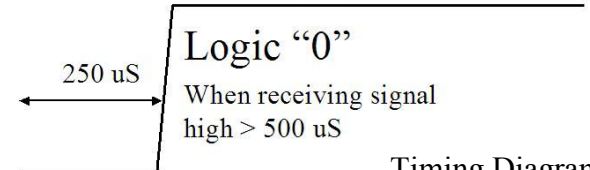
Logic "1"

When receiving signal  
high < 500 uS



Logic "0"

When receiving signal  
high > 500 uS



Timing Diagram