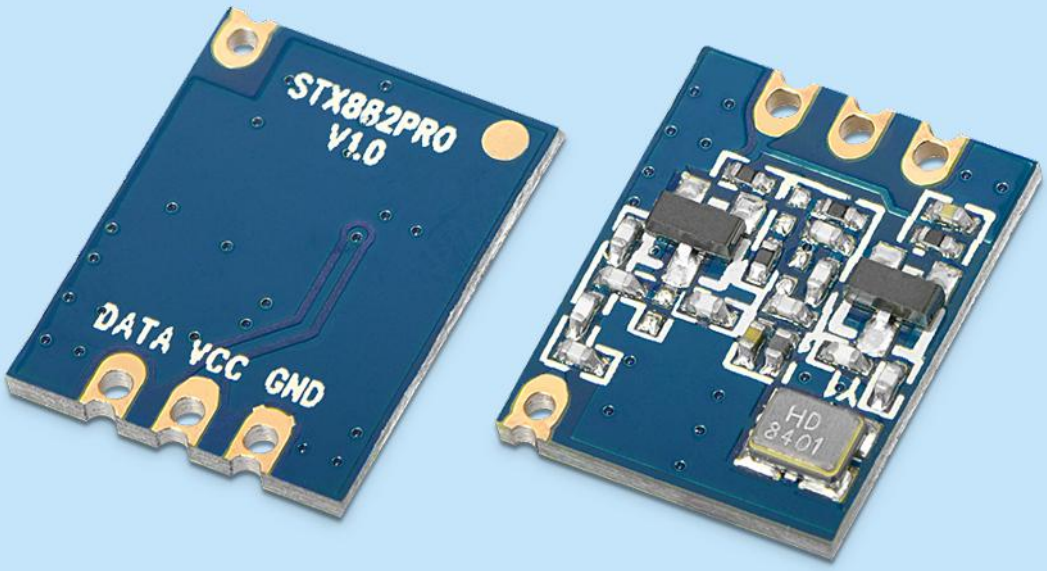
G-NiceRF®

STX882PRO

100mW High power
2mm ultra-thin ASK Transmitter module

Product Specification



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Remark: Revision History

Version	Time	Modify
V1.0	2016-4-9	First release
V1.1	2017-6	Logo updated

1. Description

STX882PRO is a small size, ultra-high-power, low harmonic ASK transmitter module. Has high stability and low cost, at 3.6V power to achieve 50mW, is currently on the market under the same voltage transmit power ASK transmitter module. The module can be connected to the micro controller directly. So it is more convenient for user developing wireless products.

STX882PRO strictly uses lead-free process for production and testing, has obtained RoHS certificate, and meet Reach standards.

2. Feature

- Frequency Range: 433/315 MHz
- ASK modulation mode
- small volume low self radiation
- high-power long-range
- frequency stability
- various international testing standards

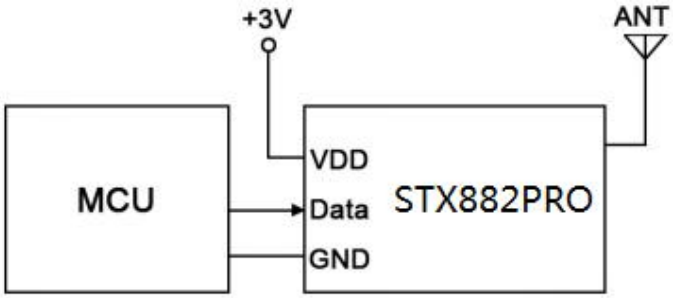
3. Application

- remote door
- wireless security alarm
- wireless industrial control
- wireless data transmission

4. Electrical Specifications

Parameter	Min.	Typ.	Max	Unit	Conditions
Operation conditions					
Supply Voltage	1.2	3.0	6	V	
Operating Temperature Range	-20	25	70	℃	
Current consumption					
TX current		34		mA	@3.3V,15dBm
Sleep Current		≤0.01		uA	@DATA As Low level
RF parameters					
Frequency Range	433.82	433.92	434.02	MHz	@433MHz
	314.9	315	315.1	MHz	@315MHz
RF power	12	13	13.5	dBm	@2.4V
	14	15	15.5	dBm	@3V
	19.5	20	20.5	dBm	@5V
Air rate	0.1		9.6	Kbps	

5. Connection Schematic

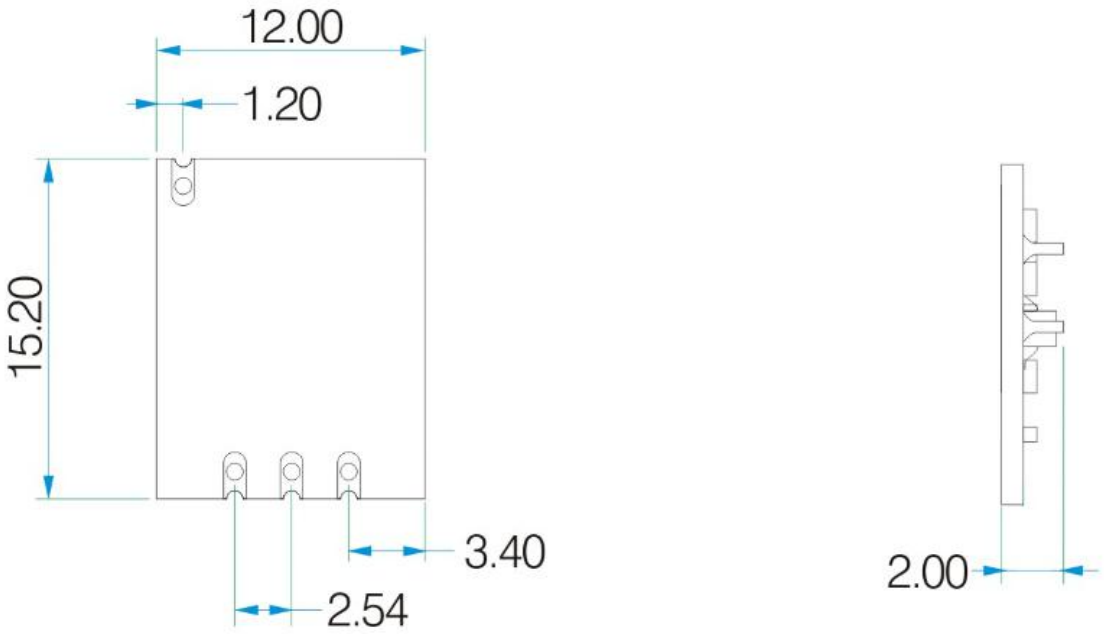


6. Pin Definitions

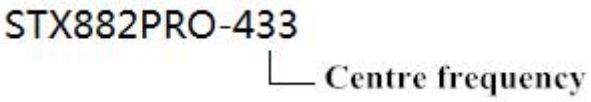


Pin Number	Pin Definitions	Description
1	ANT	Antenna input
2	DATA	Data input
3	VCC	Positive power supply
4	GND	Connected to power ground

7. Mechanical dimensions (Unit:mm)



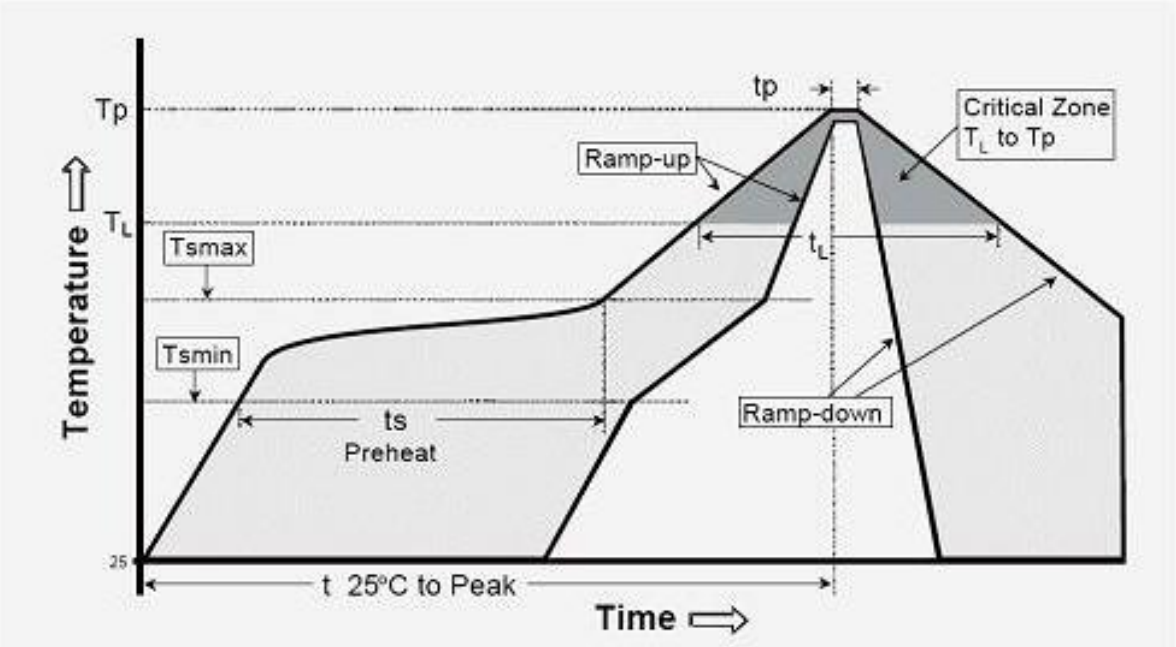
8. Order information



For example: If the customer needs 433MHz, part number of released order shall be: STX882PRO-433. This module has below versions：

Order number	Product type
STX882PRO-315	315MHz working frequency
STX882PRO-433	433MHz working frequency

Appendix 1：SMD Reflow Chart



IPC/JEDEC J-STD-020B the condition for lead-free reflow soldering	big size components （thickness >=2.5mm）
The ramp-up rate (Tl to Tp)	3℃/s (max.)
preheat temperature - Temperature minimum (Tsmin) - Temperature maximum (Tsmax) - preheat time (ts)	 150℃ 200℃ 60~180s
Average ramp-up rate(Tsmax to Tp)	3℃/s (Max.)
- Liquidous temperature(TL)	217℃
- Time at liquidous(tL)	60~150 second
peak temperature(Tp)	245+/-5℃