1. General description

The CC3000 module is a self-contained wireless network processor that simplifies the implementation of Internet connectivity using simple Link Wi-Fi technology. CC3000's Simple Link Wi-Fi solution minimized the software requirements of the host microcontroller (MCU) and is thus an ideal solution for embedded applications using any low-cost and low-power MCU.

Please note:the hardware is good, but the library code does not yet support all of the CC3000's functionality. SSID scanning, connection, DHCP, DNS lookup, ping, and UDP/TCP client connections (eg connect to a website and grab data) all work and are tested with example code. UDP/TCP server connections are not supported yet!

2. Features

- Power supply voltage：5V
- CC3000 operating voltage：3.3V
- Characteristic circuit: LDO-3.3V voltage regulator circuit, level conversion circuit

3. Applications

- Smart home
- Industrial control

4. Electrical Characteristics

PARAMETER	MIN	TYP	MAX	UNIT
Supply Voltage	-	5	-	V

5. Pining information

6. Interface description

Types	Symbol	Description
	GND	POWER Ground
	5V	POWER Supply 5V
	IRQ	Host interface SPI interrupt
	EN	Module enable. Connect to host GPIO
	CS	Host interface SPI chip-select (CS)
	DI	Host interface SPI data in
	DO	Host interface SPI data out
	CK	Host interface SPI clock
CC3000 Module PIN	RX	RS232 test-mode signal (1.8-V logic)
	TX	RS232 test-mode signal (1.8-V logic)
	SD	I2C data line from the CC3000 (1.8 V Voltage Level)
	SC	I2C clock line from the CC3000(1.8 V Voltage Level)

7. Dimension outline

8. Revision history

REVISION	DESCRIPTION	RELEASE DATE
V1.2	Initial version	11/01/2013

9. Contact information

For more information, please visit: http://www.elecfreaks.com
For sales office addresses, please send an email to: service@elecfreaks.com