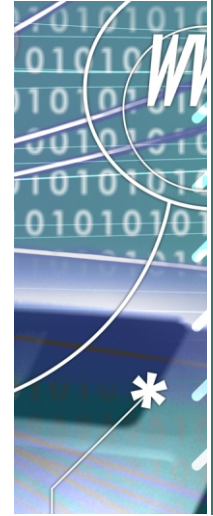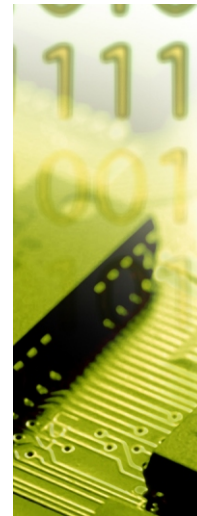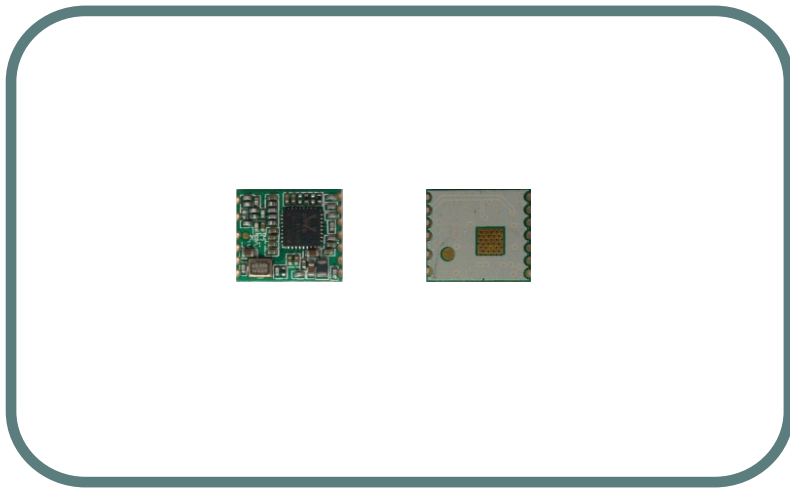# CSW801R
WiFi 802.11 b/g/n SDIO SMT Module

Bointec

CSW801R

IEEE 802.11 b/g/n compliant with 2.4GHz frequency band

Introduction of Products

Taijet Bointec CSW801R is 150 wireless SDIO module which possesses lower power consumption, high linearity output power, accords with IEEE802.11b/g/n. It connects with other wireless device which accorded with these standards together, supports the new data encryption on 64/128 bit WEP and safety mechanism on WPA-PSK/WPA2-PSK, WPA/WPA2.Its wireless transmitting rate rises 150M, equivalent to 10 times of common 11b product. The inner AI high gain ceramics antenna adapts different kinds of work environment. It's easy and convenient to link to wireless network for the users using desktop, laptop and other device that needs connect to wireless network.

Product Highlight

-Main Chipset Realtek RTL8189ES.

-IEEE 802.11 b/g/n compliant with 2.4GHz frequency band

-Supporting HT20/HT40 bandwidth

-S802.11b: 1, 2, 5.5, 11Mbps; 802.11g: 6, 9, 12, 24, 36, 48,54Mbps ;

-802.11n: Support PHY rate up to 150Mbps.
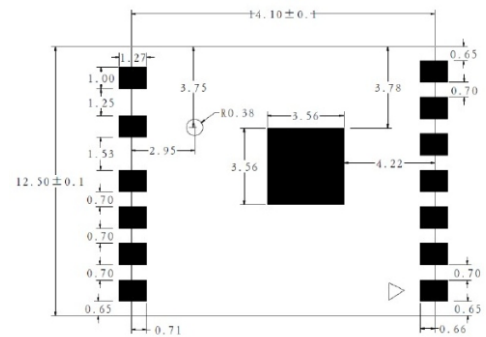
-SDIO interface

-1T1R

-RoHS compliant

Specification

Main Feature	
Main Feature	**Implementation**
The supported protocol	IEEE 802.11n, IEEE 802.11g,EE 802.11b
Interface type	SDIO 1.1/ 2.0/ 3.0
The range of frequency	2.4-2.484GHZ
The amount of working Channel	1-11 (America, Canada) ;1-13 (China, Europe) ;1-14 (
Data Modulation	OFDM/DBPSK/DQPSK/CCK
Working Mode	Infrastructure, Ad-Hoc
The transmitting rate	135/54/48/36/24/18/12/9/6 /1M (self-adapting)
Spread spectrum	DSSS
Sensitivity @PER	54/135M:-74dBm@10%PER, 11M:-85dBm@8%PER 6M: -88dBm@10%PER , 1M: -90dBm@8%PER
RF Power	135M:15dBM, 54M:15dBM, 11M:19dBM
Throughput	90Mbps(external 2dBi antenna ,damping 40dbm in Shielding
The connect type of Antenna	Connect to the external antenna through the half hole
LED indicator	status indicator
The transmit distance	Indoor 100M, Outdoor 300M, according the local environment
Working Power consumption	180MA
Dimension (L x W x H)	14.1mm x12.5mm x 0.8mm
The chipset model	RTL8189ES-CG

Main Feature		
Feature	**Implementation**	
Power supply	VCC_3.3V +-0.2V	
Clock source	40MHz	
Temperature range	Work temperature: -20ºC–-70ºC Storage temperature -40°C ~ +125°C	
The connect type of	Connect to the 6th pin of Module	
Antenna	SMT 13 pins	
Supported Platform		
Operating System	**CPU Framework**	**Driver**
WIN2000/XP/VISTA/WIN7	X86 Platform	Enable
LINUX2.4/2.6	ARM, MIPSII	Enable
WINCE5.0/6.0	ARM ,MIPSII	Enable

Product quick glance

ME Drawing/placement

Block diagram
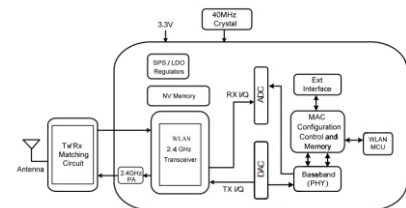
Figure 1. Single-Band 11n (1x1) Solution

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