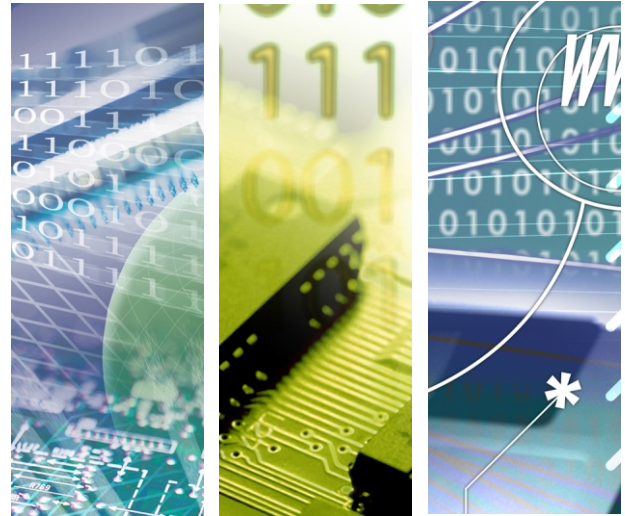
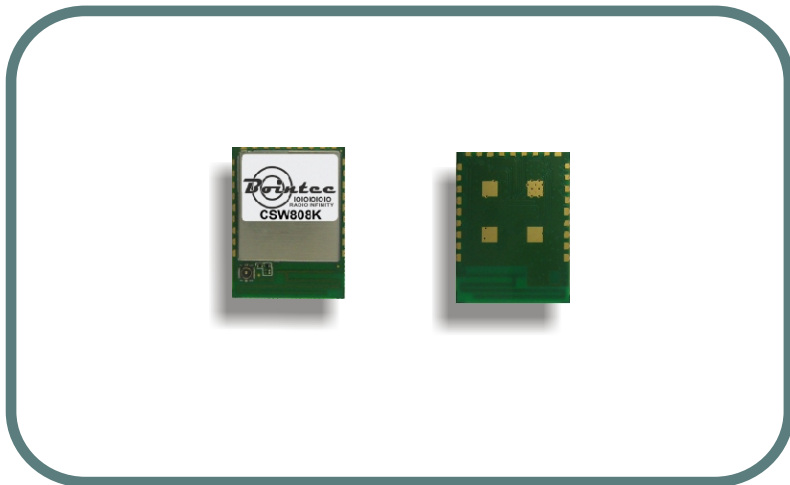




# CSW808K

IEEE 802.11b/g/n IoT Module SMT type



CSW808K

802.11bgn IoT module, SMT type (saw edge, flash 4Mb)

## Introduction of Products

Bointec CSW808K is a low-cost, low-power consumption IOT module. The CSW808K integrate Wi-Fi single chip, which supports IEEE 802.11b/g/n stream, providing GPIO for intelligent control, and UART interfaces for device communication.

CSW808K integrate PCB Printed antenna and 4Mbits flash to reduce customer platform size. And also integrate power manage unit for single 3.3V power source for cost effective design.

Bointec CSW808K embedded 32-bit RISC MCU for 802.11b/g/n drivers, supplicant, TCP/IP protocol stack, and networking applications, can be operated in station mode and softAP mode. CSW808K is an ideal solution for embedded device to enable networking service with minimized design effort.

## Product Highlight

- IEEE 802.11 b/g/n compliant with 2.4GHz frequency band
- 32-bit RISC microprocessor as the host MCU
- Supports either Client and AP mode that can be selected
- Embedded IEEE 802.11 b/g/n drivers, supplicant, and TCP/IP stack
- Smart WiFi configuration supported
- Integrate PCB Printed antenna and 4Mbits flash
- Rich interfaces, UART and GPIOs
- Support WEP and WPA2 encryption mode
- RF ON/OFF control
- Sleep mode management
- Small footprint : 20 mm x 15 mm x 2.45 mm
- Optional onboard antenna or External antenna
- Worldwide regulatory compliance
- RoHS & Halogen free compliant / Lead free



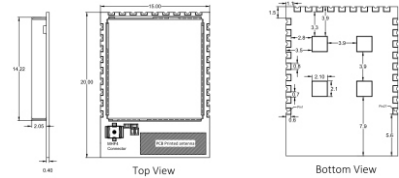
# Specification

General	
Processor	Mediatek® MT7681N
Frequency band	2.4GHz (2.412 GHz to 2.484 GHz)
Bandwidth	HT20 and HT40
Antenna	● Built-in printed antenna
	● External antenna via IPEX connector (Optional)
	● 1T1R
Interfaces	● UART 115200bps(maximum)
	● GPIO
WiFi	
Standard	IEEE 802.11 b/g/n
Internet Protocols	IPv4, TCP/UDP, ARP/NDP, DHCPv4,
Security Protocols	WPA, WPA2-PSK,WEP
Power Consumption	
Operating Voltage	3.3 V ± 0.05V
Power Consumption	● Transmit: 250 mA @16dBm
	● Receive: 75 mA (typical)
	● Power saving mode(DITM=1): 1.09mA
	● Standby mode(Sleep): 130uA
Dimension	
PCB Size	20 x 15 x 2.45 mm
Package	LGA / saw edge
Environmental	
Operating Temperature	Industrial: N/A
	Commercial: -15°C ~ +75°C
Storage Temperature	Industrial: N/A
	Commercial: -40°C ~ +85°C
Operating Humidity	Operating humidity: 20-80%

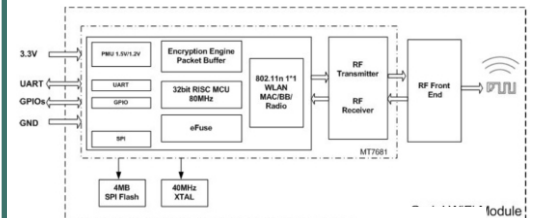
## Product quick glance



## ME Drawing/placement



## Block diagram



## Ordering Information

Part Number	System Description
TFGA-CSW808K0-31	finished non packaing,OEM,CSW808K
T.CSW808K-DK	CSW808K-DK,Single packed, development kit packed



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