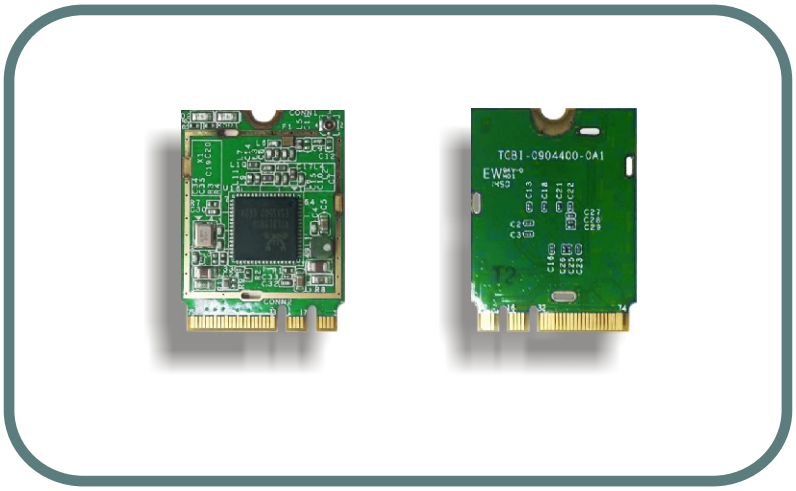
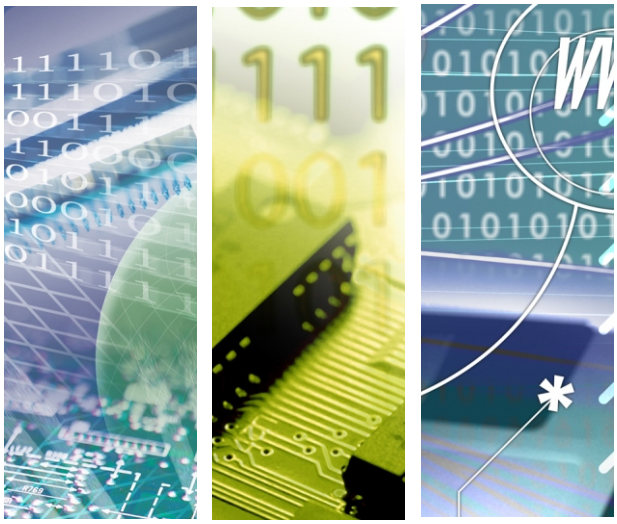
CGF801R

IEEE 802.11b/g/n, 1T1R, NGFF module





CGF801R

802.11 b/g/n, 1T1R, NGFF(M.2) A+E Key modul

Introduction of Products

Bointec CGF801R is a WLAN module supporting IEEE 802.11 b/g/n standard via the M.2 interface which formerly is known as the Next Generation Form Factor (NGFF), a specification for internally mounted computer expansion cards and associated connectors. CGF801R is truly a cost-effective solution for the current NGFF application. It can achieve the max throughput of 150Mbps based on 1T1R for the basic data rate requirement and various environments such as household appliances, industry, consumer and automobile applications. Based on the compact standard size module and robust setup scheme, CGF801R provides those advantages to enhance the value of our customer's target product.

Product Highlight

-Main chipset: Realtek RTL8188SU

-IEEE 802.11 b/g/n standard

-Supporting HT20/HT40 based on 2.4GHz frequency band

-802.11a: 6, 9, 12, 24, 36, 48, 54Mbps

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

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

-Next Generation Form Factor (NGFF)/M.2 Interface

-One U.FL connectors

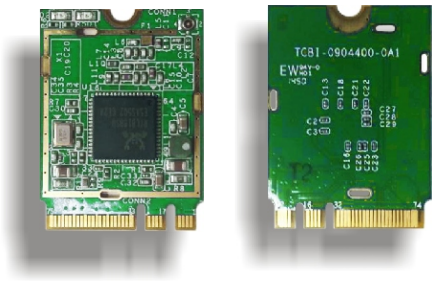
-PCB Dimensions: 22 mm x 30 mm x 1.8(Max) mm

-RoHS compliant

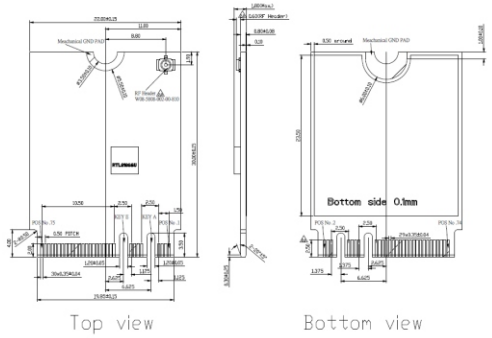
Specification

Feature	Specification
Main Chipset	Realtek RTL8188SU
Frequency band	2.4GHz
Bandwidth	HT20 and HT40
Operation Frequency	USA: 2.400 ~ 2.483GHz
	Europe: 2.400 ~ 2.483GHz
	Japan: 2.400 ~ 2.497GHz
	China: 2.400 ~ 2.483GHz
Standard	IEEE 802.11 b/g/n standard
Antenna	One U.FL connector
Host Interface	Next Generation Form Factor (NGFF)/M.2 Interface
Channels Support	802.11 b/g/n
	US/Canada: 11 (1 ~ 11)
	Major European country: 13 (1 ~ 13)
	France: 4 (10 ~ 13)
	Japan: 11b: 14 (1~13 or 14th),11g: 13 (1 ~ 13)
	China: 13 (1 ~ 13)
Transmit Spectrum mask	Frequency mask is complying with IEEE 802.11spec
Modulation Technique	802.11 Legacy b/g
	DSSS (DBPSK, DQPSK, CCK)
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	DSSS (Direct Sequence Spread Spectrum) with
	DBPSK (Differential Binary Phase Shift Keying 1Mbps),
	DQPSK (Differential Quaternary Phase Shift Keying 2Mbps), and
	CCK (Complementary Code Keying 5.5&11Mbps), and
	OFDM (Orthogonal Frequency Division Multiplexing with BPSK for 6,9Mbps、 QPSK for 12,18Mbps、 16QAM for 24,36Mbps、 64QAM for 48, 54Mbps)
	802.11n a/g
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	802.11b: 1, 2, 5.5, 11Mbps
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11n:
	MCS0-7, Support up to 72Mbps @ HT20
	MCS0-7, Support up to 150Mbps@HT40
PCB Dimension	(22 +/- 0.15 mm) x (30+/- 0.15 mm) x 1.8mm (Max)
Power	3.3 V DC
Operation Temperature	-10~+55 degree C
Storage Temperature	-40~+65 degree C

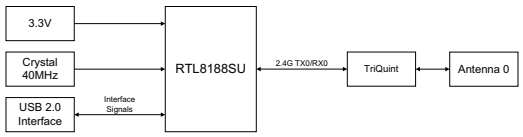
Product quick glance



ME Drawing/placement



Block diagram



Ordering Information

PART NUMBER	DESCRIOPTION

Bointec Authorized Distributer

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