



CUB803R

802.11bgn USB miniPCle, 1T1R



USB2.0 bus/interface (mini PCIe form factor, half size)

Introduction of Products

Bointec CUB803R is a WLAN module supporting IEEE 802.11 b/g/n standard via mini PCIe interface, a specification for internally mounted computer expansion cards and associated connectors. CUB803R is truly a cost-effective solution for the current mini PCIe 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, CUB803R provides those advantages to enhance the value of our customer's target product.

Product Highlight

- USB bus
- 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: 15, 30, 45, 60, 90, 120, 150Mbps
- Support PHY rate up to 150Mbps.
- mini PCIe Interface
- One IPEX connectors
- PCB Dimensions: 26.8 mm x 29.85 mm x 3(Max) mm
- RoHS compliant



Specification

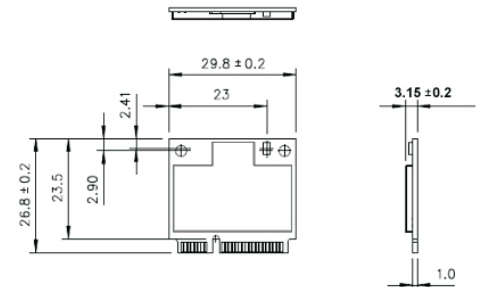
General	
Feature	Specification
Main Chipset	Realtek RTL8188SU
Frequency band	2.4GHz
Bandwidth	HT20 and HT40
Operation Frequency	USA: 2.400 ~ 2.483GHz
	Europe: 2.400 ~ 2.483GHz
	Japan: 2.400 ~ 2.497GHz
	China: 2.400 ~ 2.483GHz
Standard	IEEE 802.11 b/g/n standard
Antenna	One IPEX connector
Host Interface	mini PCIe 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)
Transfer Data Rate	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	(26.8 +/- 0.2 mm) x (29.85 +/- 0.2 mm) x 3.2mm (Max)
Power	3.3 V DC
Operation Temperature	-10~+55 degree C
Storage Temperature	-40~+65 degree C

Product quick glance

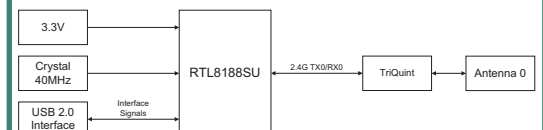


ME Drawing/placement

PCB Dimension



Block diagram



Ordering Information

PART NUMBER	DESCRIPTION
TFGA-CUB803R 0-11	?,finished non packaing,Bointec,CUB803R
T.CUB83R-DK	?,CUB803R-DK,Single packed,nature packed, development kit packed



We are Your Partner more than Business



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