Wireless Module

WUBA-171GN

802.11bgn Single-Band

1T1R USB Module



Highly Power and Wide Temperature USB Module Solution

The WUBA-171GN is powered by Qualcomm Atheros radio chip and features 1x1 11bgn technology for higher throughput performance, reliability and wide temperature USB module. It is designed to meet the demanding performance requirements of critical embedded applications.

Embedded Application :

Applications include Networking Equipment, USB Dongle, Industrial Computers, Medical Device, POS System, Gaming Machine, PC and consumer electronics markets.

Key Feature :

- Qualcomm Atheros AR9271
- Antenna: U.FL * 1 for 1T1R
- Data Rates: allows link speeds up to 150Mbps.
- Support Windows XP, Vista, Win7, Linux driver

Specification :

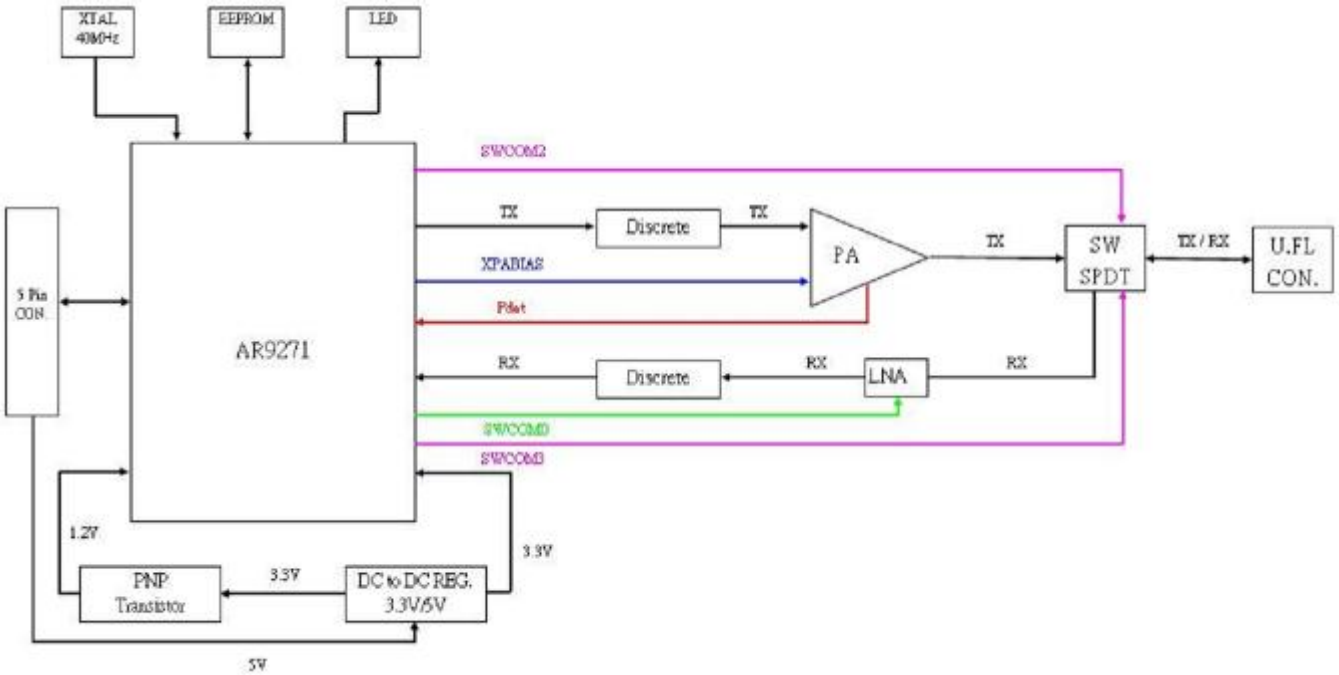
Standards:	IEEE 802.11bgn (1T1R)
Chipset:	Qualcomm Atheros AR9271
Data Rate:	802.11b: 11Mbps / 802.11g: 54Mbps / 802.11n: 150Mbps
Operating Frequency:	IEEE 802.11bgn ISM Band, 2.400GHz ~ 2.4835GHz *Subject to local regulations
Interface:	USB 2.0 5-pin header
Form Factor:	USB
Antenna:	1 x UFL connector for 1T1R
Modulation:	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Operating Voltage:	5V
Temperature Range:	-30°C ~ +75°C (Operating) / -40°C ~ +80°C (Storage)
Humidity (Non-Condensing):	Operating Humidity (non-condensing): 10% ~ 90% Storage Humidity (non-condensing): 5% ~ 90%
Power Consumption:	Continue TX: Max 650mA / Continue RX: Max 300mA
Dimension (in mm):	65 x 20.9 x 11.6 mm
Weight (g):	< 10g
Driver Support:	Windows XP, Vista, Win7, Linux
Security	64/128-bits WEP, WPA, WPA2

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OUTPUT POWER & SENSITIVITY		
802.11g		
Data Rate	**Tx ± 2dBm**	**Rx Sensitivity± 2dBm**
54Mbps	21dBm	≦-75dBm

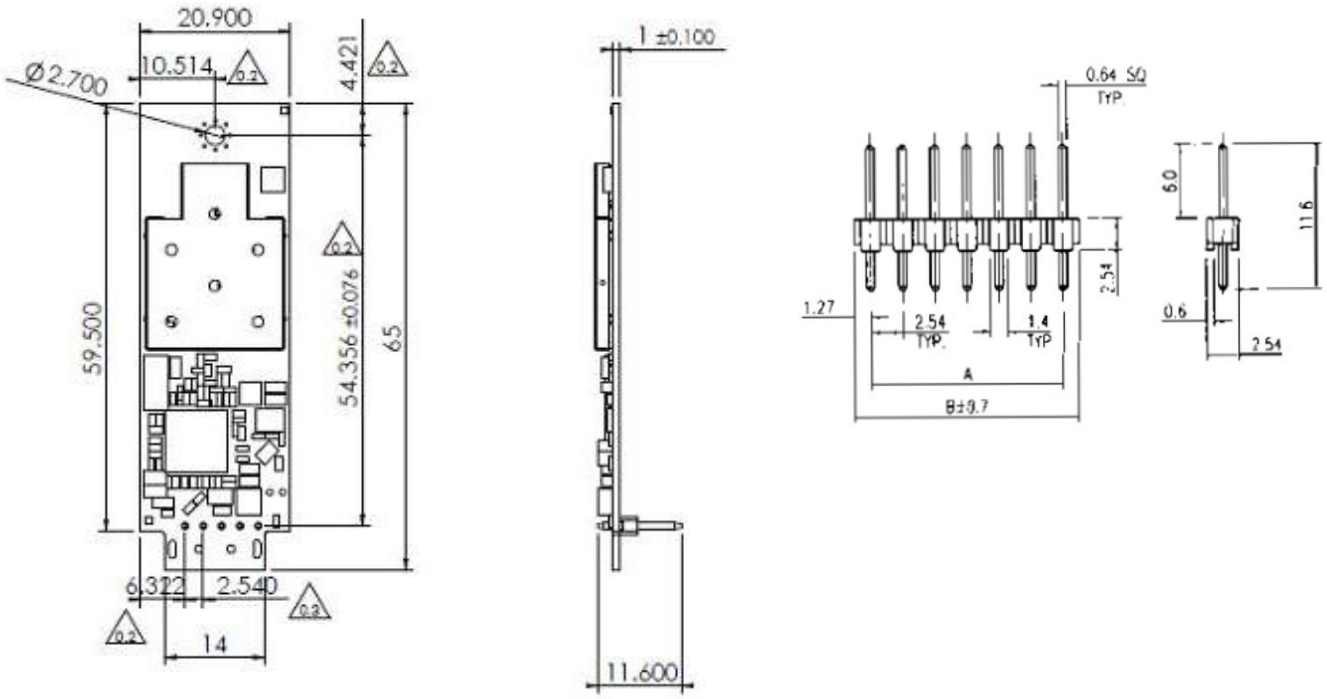
802.11n / 2.4GHz			
HT20	**Data Rate**	**Tx ± 2dBm (1TX)**	**Rx Sensitivity**
	MCS7	21dBm	≦-72dBm
HT40	MCS7	21dBm	≦-68dBm

Block Diagram



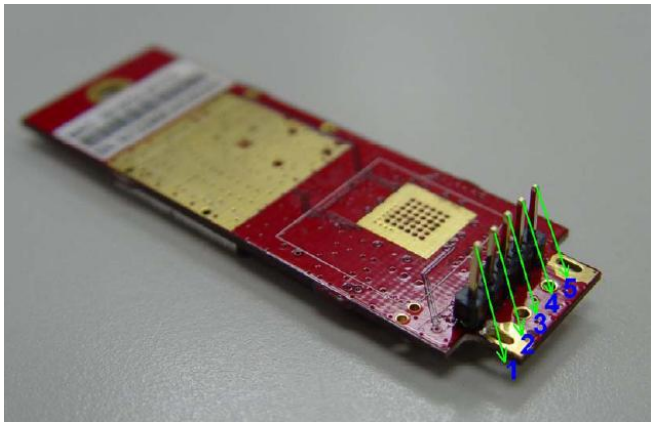
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Mechanical Dimension (mm)



Pin Assignment

Pin#	Description	Pin#	Description
1	WPS function ; Active “High”	2	VCC (+5V)
3	USB_D-	4	USB_D+
5	GND		



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