

WUBQ-159ACN Dongle (Bulk packing) PRODUCT APPROVAL SHEET

Version:1.0

Customer	SparkLAN Communications, Inc.
Part Number	R990001A300
Product Number	WUBQ-159ACN
Description	802.11acbgm USB Dongle

SparkLAN		Customer
Sales	PM	Approved by
	Aaron Lai	

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1. PRODUCT INTRODUCTION

1.1 Specification

Standard	IEEE 802.11acbg
Chipset solution	QCA9377-7
Radio stream [Note1]	1T1R
Antenna Type / connector	Printed antenna
Bus Interface	USB
Form Factor	USB type A
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 30, 60, 90, 120, 180, 240, 270, 300 Mbps 802.11ac: 65, 130, 195, 260, 390, 520, 585, 650, 780, 867 Mbps
Spreading /Modulation Techniques	802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Frequency Range [Note2]	2.4GHz: 11b/g/n: 2.400GHz ~ 2.4835GHz 5GHz: 11a/n/ac: 5.150GHz ~ 5.825GHz
Transmit Output Power (Tolerance: +/-2dBm)	802.11a: 13dBm@54Mbps 802.11b: 19dBm@11Mbps 802.11g: 13dBm@54Mbps 802.11gn HT20: 16dBm@MCS7 802.11gn HT40: 16dBm@MCS7 802.11an HT20: 13dBm@MCS7 802.11an HT40: 13dBm@MCS7 802.11ac VHT80: 10dBm@MCS9
Receiver Sensitivity	802.11a: <= -73dBm@54Mbps 802.11b: <= -76dBm@11Mbps 802.11g: <= -74dBm@54Mbps 802.11gn HT20: <= -70dBm@MCS7 802.11gn HT40: <= -68dBm@MCS7 802.11an HT20: <= -67dBm@MCS7 802.11an HT40: <= -63dBm@MCS7 802.11ac VHT80: <= -55dBm@MCS9

Operating Voltage	5V
Power Consumption	TX Mode: 220mA RX Mode: 150mA
Temperature Range	-20°C ~+70°C (Operating), -30°~+85°C (Storing)
Humidity (non-condensing)	5~90 % (Operating), 5~95 % (Storing) [Note3]
Security	WEP / WPA / WPA2, 802.1x
OS supported	Windows XP/ Win 7/ Win 8.0/ Win 8.1/ Win 10/ Linux

Note:

1. All U.FL connectors are to be fitted with antennas in order to maximize module performance.
2. Available frequency range is subject to local regulations.
3. Meeting the storing condition only guarantees its functionality, visual appearance is not included.

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2. HARDWARE SPECIFICATION

2.1 Hardware Dimension

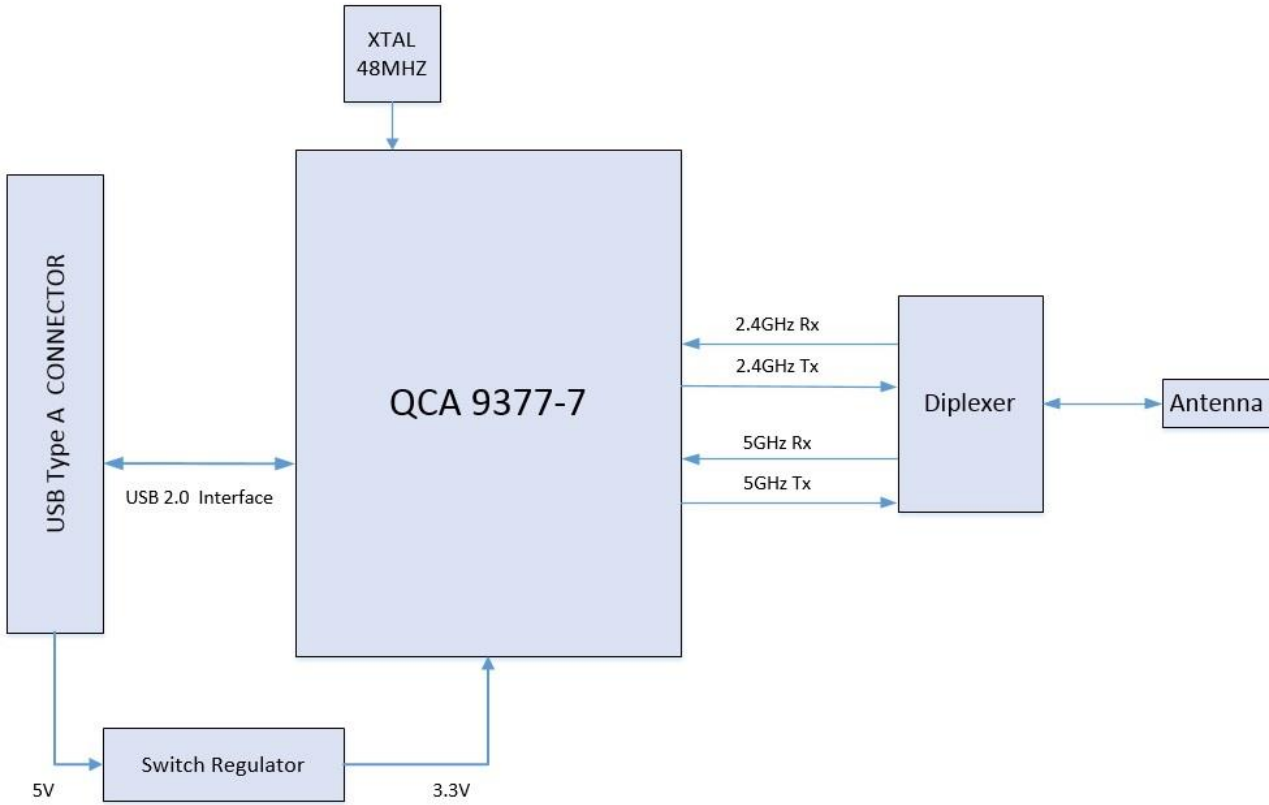
Dimension (L x W x H): 76.9 * 26.1* 10.7mm (Tolerance:±0.5mm)



2.2 Hardware Weight

Weight (g): \leq 18g

2.3 Block Diagram



2.4 Pin Assignment

Pin#	Pin Name	Description	Pin#	Pin Name	Description
	+5V	+5V		USB_D+	D+
3	USB_D-	D-	4	GND	GND

2.5 Domain Code & Register setting

Reg Domain Code	0x6A(5G), 0x0(2.4G)
Vendor ID	0x0CF3
Product ID	0x9378

3. SOFTWARE SPECIFICATION

3.1 Driver Support

Windows XP /Win 7/ Win 8 /Win 8.1 /Win 10, Linux (Official driver release requires Qualcomm NDA/TLA approval.)

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4. STANDARD PACKING

4.1 Product Label

- Back label



4.2 Packing & Carton Label



WUBQ-159ACN USB Dongle



Put Dongle into PE bag



100pcs Dongles in one box



802.11ac/a/b/g/n USB dongle
USB type A connector + Printed Ant.
S/N From: YYM60N20XXXXX
S/N To: YYM60N20XXXXX
WUBQ-159ACN Qty : 100 PCS

Box label



<p>Box label size: 60*25mm</p>	<p>5pcs boxes in one Carton</p>
	<p>802.11ac/a/b/g/n USB dongle (USB type A connector + Printed Ant)</p> <p>Part Number: R990001A300</p> <p>Model No.: WUBQ-159ACN</p> <p>QTY: 500 PCS </p> <p>S/N:</p> <p>From:  YYM60N20XXXXX</p> <p>To:  YYM60N20XXXXX</p> <p>NW: ___ Kgs GW: ___ Kgs</p> <p>CARTON of NO: /  </p> <p>CE</p> <p>Made In Taiwan <small>8F., No. 257, Sec. 2, Tiding Blvd., Neihu District, Taipei 11463, Taiwan</small></p>
<p>Carton size: 527 *357 *268 mm</p>	<p>Carton label size: 102*165mm</p>

5. CUSTOMIZE REQUIREMENT

N/A

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6. APPENDIX

N/A

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