# DGF108A 802.11ac/abgn WiFi with BT4.1 Combo NGFF Card



Bointec

Complete Solution for WiFi and Bluetooth.

### Introduction of Products

Bointec DGF108A is an dual band 802.11ac/a/b/g/n Dual-Band WiFi + Bluetooth NGFF adapter. It is a 2T2R (WiFi/BT co-existence supported) technology, with 20/40/80MHz and 256-QAM to maximize bandwidth. Bointec DGF108A lets you move at the speed of life with faster speeds (up to 867 Mbps, 1~3Mbps EDR for Bluetooth), higher capacity, broader coverage and longer battery life. Dramatically reshapes your connected experience.

Higher throughput wireless networking-- adopting the latest 802.11ac solution, Bointec DGF108A is ideal for next-generation high throughput enterprise networking solution.

As usual DGF108A incorporated with advanced security encryption, such as WEP, WPA, WPA2, and 802.1x for secure wireless connection.



## **Product Highlight**

**BT Feature:** 

- -Bluetooth V4.1, V4.0 LE, V3.0+HS, V2.1+EDR system, backwards compatible
- Support Class I
- -BT transmission speed including 1M, 2M and 3Mbps EDR operations
- Support for Simple Pairing (SP) and Enhanced Inquiry Response (EIR)function-Support for SCATTERNETandPICONET
- -HCI USB interfaceto work with Windows upper layer stack

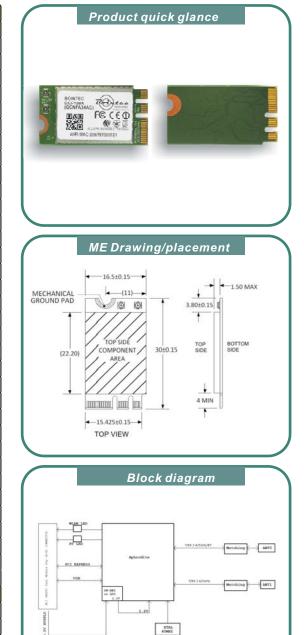
### Wi-Fi Feature:

- -Operate at ISM frequency Band(2.4/5 Ghz)
- IEEE Standards Support802.11ac, 802.11a, 802.11b, 802.11gand 802.11n
- -Enterprise levelsecurity supporting: WPA, WPA2-Support 2transmission and 2receiving, up to 867Mbps(Physical Rate)in downstream and upstream



## Specification

General		
Bluetooth		
Standard	Bluetooth V4.1, V4.0LE, V3.0+HS, V2.1+EDR,	
Bus Interface	USB1.1	
Data Rate	1 Mbps, 2Mbps and Up to 3Mbps	
Modulation Scheme	GFSK, π/4-DQPSK and 8-DPSK	
Frequency Range	2.402~2.480 GHz	
Transmit Output Power	0≤ Output Power ≤ +10; Class 1Device	
Receiver Sensitivity	< 0.1% BER at -70dBm	
Software	Bluetooth Suite	
WiFi		
Standard	IEEE802.11ac,IEEE802.11a , IEEE802.11b , IEEE 802.11g , IEEE 802.11n	
BusInterface	PCI Express	
Data Rate	802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps	
	802.11b: 11, 5.5, 2, 1 Mbps	
	802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps	
	802.11n: MCS 0 to 15	
	802.11ac: MCS 0 to 9	
Media Access Control	CSMA/CA with ACK	
Modulation Techniques	802.11ac: 256QAM, 64QAM, 16QAM, QPSK, BPSK	
	802.11a: 64QAM, 16QAM, QPSK, BPSK	
	802.11b: CCK, DQPSK, DBPSK	
	802.11g: 64QAM, 16QAM, QPSK, BPSK	
	802.11n: BPSK, QPSK, 16QAM, 64QAM	
Network Architecture	Ad-hoc mode (Peer-to-Peer )	
	Infrastructure mode	
Operation Channel	5GHz	
	12: – United States	
	19: – Europe	
	8: – Japan	
	2.4GHz	
	11: (Ch. 1-11) – United States	
	13: (Ch. 1-13) – Europe	
	14: (Ch. 1-14) – Japan	
Frequency Range	802.11a / ac: 5.15~5.85 GHz	
	802.11bg :2.412 ~ 2.4835 GHz	
	Electronics characteristics	
Operating Voltage	3.3 V ±9% I/O supply voltage	
OS Supported	Microsoft Windows	
Antenna Type	Dual MHF4 Antenna Connectors	
Operating Temperature	-10° ~ +70°C	
Storage Temperature	-40° ~ +80°C	
Operating Humidity	15%~95%, non-condensing	
Storage Humidity	Max.95%, non-condensing	



#### Ordering Information

Part Number	System Description
T.DGF108A	DGF108A,Single packed
T.DGF108A-DK	DGF108A-DK,Single packeddevelopment kit packed
TFGA-DGF108AA-11	finished non packaing,Bointec,DGF108A



TAIJET BOINTEC CO LTD 4F, #114, Zhouzi St., Neihu-Taipei 11493, Taiwan TEL:+886-2-2759-0081 WWW.BOINTEC.COM

Bointec Authorized Distributer

(C)TAIJET BOINTEC. All rights reserved. Taijet Bointec & the Taijet Bointec logo are the trademarks of Taijet Bointec, which may be registered in some jurisdictions. All other brands and product names are registered trademarks of their respective holders. Information supplied by Taijet Bointec is believed to be accurate and reliable. Taijet Bointec assumes no responsibility for any errors in this brochure. Taijet Bointec reserves the right, without notice, to make changed in product design or specifications.