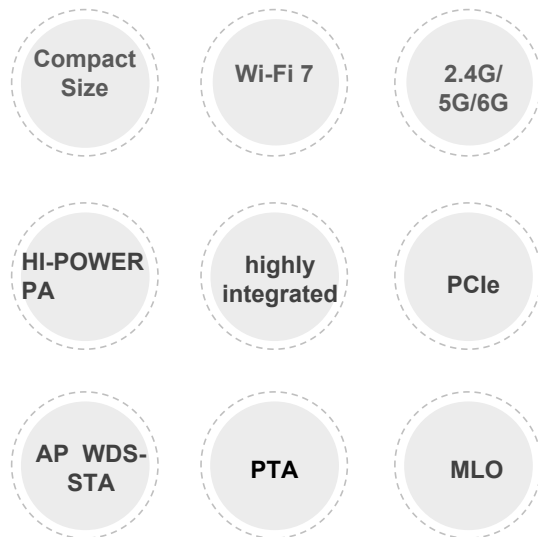
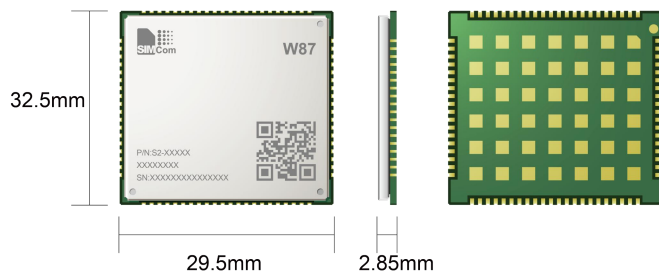


W87

Wi-Fi Module with LCC+LGA Package



W87 is a small and highly integrated Wi-Fi module based on Qualcomm QFW71X4 chipset.

The module conforms to IEEE standard 802.11a/b/g/n/ac/ax/be

The module is integrated with the WLAN processor, baseband and 2.4G/5G/6G RF transceivers. It support data communication between SIMCom 5G module SIM8270X through PCIe interface.

The module can be used in 5G CPE, mifi, car networking, router, and other wireless terminals.

- Compact LCC +LGA Package Wi-Fi Module
- Support IEEE Standard protocol of 802.11a/b/g/n/ac/ax/be
- Support 2.4GHz , 5GHz and 6GHz
- Support 4x4+4x4+ 4x4 MU-MIMO

Product	W87-Q450	W87-F420	W87-Q460
Form Factor	LCC+LGA	LCC+LGA	LCC+LGA
Dimensions(mm)	32.5*29.5*2.85	32.5*29.5*2.85	32.5*29.5*2.85
WLAN Bands	6G	NA	4*MIMO
	5G	4*MIMO	NA
	2.4G	NA	NA
Temperature	-30°C ~ +70°C	-30°C ~ +70°C	-30°C ~ +70°C
Electrical Features			
Supply Voltage(V)	VDD3V3 : 3.0 ~ 3.6 VDD5V_PA : 4.75 ~ 5.25	VDD3V3 : 3.0 ~ 3.6 VDD5V_PA : 4.75 ~ 5.25	VDD3V3 : 3.0 ~ 3.6 VDD5V_PA : 4.75 ~ 5.25
Data Transfer (theoretical)			
802.11a	54Mbps		
802.11b	11Mbps		
802.11g	54Mbps		
802.11n	HT40 GI=800 4MIMO:540Mbps		
802.11ac	VHT160 GI=800 4MIMO:3120Mbps		
802.11ax	HE160 GI=800 4MIMO: 4804Mbps		
802.11be	EHT320 GI=800 4MIMO:11528Mbps		
General Features			
WLAN Standard	IEEE802.11 a/b/g/n/ac/ax/be, 4x4		
Modulation Mode	CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM,4K-QAM		
bandwidth 2.4G	20/40 MHz		
bandwidth 5G	20/40/80/160MHz		
bandwidth 6G	20/40/80/160/320MHz		
Encryption Mode	WPA3	WPA3	WPA3
HBS	•	•	•
Interfaces			
MLO WSI	•	•	•
PCIe	•	•	•
PTA	•	•	•
GPIOs	•	•	•
WLAN Antenna	*4	*4	*4
Certifications			
Regulatory	/RoHS*/REACH*		

•: support o: optional *:means under developing/on-going/planning