#### www.lm-technologies.com

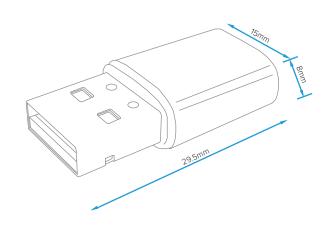
### LM808 WiFi 802.11ac/b/g/n Adapter Host Controller Interface (HCI) via USB Interface











### **Features**

- Supports All IEEE Standards IEEE 802.11ac/a/b/g/n/d/e/h/i
- Backward compatible with 802.11a/b/g devices while operating over 802.11n
- Maximum Data Rates at
  - 72.2 Mbps Using 20MHz bandwidth
  - 150 Mbps Using 40MHz bandwidth
  - 433.3Mbps Using 80MHz bandwidth

- Operates over ISM bands (2.4GHz and 5GHz) • 20MHz / 40MHz / 80MHz Bandwidth Transmission
- Modulation
  - OFDM with BPSK, QPSK, 16QAM, 64QAM and 256QAM
  - Convolutional Coding Rate: 1/2, 2/3, 3/4, and 5/6
- WiFi Direct and support for WiFi P2P PAN network
- See our website for this products certifications.
- RoHS, REACH and WEEE





The LM808 WiFi USB Adapter uses a USB 2.0 interface in order to communicate with the host. It uses a Realtek IC that fully supports all of the 808.11 Bands, IEEE 802.11 ac Draft 2.0 and 802.11 a/b/g/n specifications, plus is backward compatible while using 802.11n standard.

The LM808 Series Adapter is for users requiring a high-performance wireless client. Also supporting the WiFi Direct feature that can easily build a WiFi P2P PAN network.

The LM808 supports the Orthogonal Frequency Division Multiplexing (OFDM) with one transmit and one receive path (1T1R).

Features include support for both 20MHz, 40MHz and 80MHz channel bandwidth, and combined with BPSK, QPSK, 16QAM, 64QAM and 256QAM modulation of the individual subcarriers and offers a compatible coding rate of 1/2, 2/3, 3/4, and 5/6, and provides up to 433.3 Mbps over IEEE 802.11ac while using 80MHz bandwidth.



# LM808 WiFi 802.11ac/b/g/n Adapter Host Controller Interface (HCI) via USB Interface

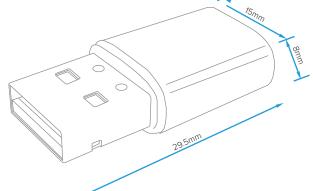
www.lm-technologies.com

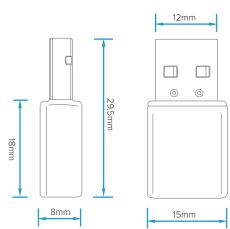
Product LM808 Part No See Last Page

### **General Specification**

Product Name	LM808		
Chipset	Realtek		
No. of Transmitters	1T 1R		
Standard	IEEE 802.11ac/a/b/g/n/d/e/h/i		
Data Transfer Rate	1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54, 60, 90, 120, 150, 173.3, 180, 240, 270, 300, and maximum of		
	433.3Mbps		
Modulation Method	CCK, DQPSK, DBPSK, BPSK, QPSK,16QAM, 64QAM, 256QAM		
Frequency Band	2.4 GHz and 5 GHz ISM Band		
RF Output Power	17dBm – 802.11b @ 11Mbps		
(tolerance ±2dBm)	15dBm – 802.11g @ 54Mbps		
	13dBm – 802.11a @ 54Mbps		
	13dBm – 802.11n @ MCS7_HT20		
	13dBm – 802.11n @ MCS7_HT40		
	11dBm – 802.11ac @ NSS1 MCS9_BW20, BW40, BW80		
	-82dBm – 802.11b @ 11Mbps -71dBm – 802.11g@54MBps		
Receiver Sesitivity	-67dBm – 802.11n @ MCS7_BW20		
	-64dBm – 802.11n @ MCS7_BW40		
	-57dBm – 802.11ac @ NSS1_MCS9_BW20		
	-54dBm – 802.11ac @ NSS1_MCS9_BW40		
	-51dBm – 802.11ac @ NSS1_MCS9_BW80		
Operating Temperature	0° to +70° C ambient temperature 5 to 90 % (non-condensing)		
Storage Temperature	-40° to +80°C ambient temperature 5 to 95 % (non-condensing)		
Dimension	29.5mm x 15.0mm x 8.0 mm (L x W x H) USB Type A Connector + Housing		
Weight	3.33g +/- 0.25g tolerance		

#### **Dimensions**







# LM808 WiFi 802.11ac/b/g/n Adapter Host Controller Interface (HCI) via USB Interface

www.lm-technologies.com

ProductLM808Part NoSee Last Page

#### **Datasheet Version Notes**

v1.0	11 JAN 2018	Added version notes to datasheet.
v1.1	4 JUN 2018	Updated Packing Options





# LM808 WiFi 802.11ac/b/g/n Adapter Host Controller Interface (HCI) via USB Interface

## LM808 Packaging Options

LM808

Inloaded from Arrow.com.

LM

ETSI Versions			
	808-0409 ETCHED	CSP - Carton Sample Pack ADPT 802.11ac + USB 433Mbps 5v IC-ANT SAMPLE (2x20) Cartons contain sample bags of 2 pieces. Contact LM for your desired quantities.	MoC CMIIT IC:10531A-80804XX
	808-0402 NOT ETCHED	AO - Adapter Only ADPT 802.11ac + USB 433Mbps 5v IC-ANT AO	
Trans			Front Etching
Viet lages 1 Tac	808-0403 NOT ETCHED	RP - Retail Pack ADPT 802.11ac + USB 433Mbps 5v IC-ANT RP	
			Back Etching
	808-0406 ETCHED	AO - Adapter Only ADPT 802.11ac + USB 433Mbps 5v IC-ANT ETCH AO	
<b>US Versions</b>			
	808-0409 US ETCHED	CSP - Carton Sample Pack ADPT 802.11ac + USB 433Mbps 5v IC-ANT SAMPLE (2x20) Cartons contain sample bags of 2 pieces. Contact LM for your desired quantities.	ИСС SA C MOC СМИТ IC:10531A-80804XX
	808-0404 US NOT ETCHED	AO - Adapter Only ADPT 802.11ac + USB 433Mbps 5v IC-ANT AO	
			Front Etching
Wireless Hac	808-0405 US NOT ETCHED	RP - Retail Pack ADPT 802.11ac + USB 433Mbps 5v IC-ANT RP	
			Back Etching
	808-0407 US ETCHED	AO - Adapter Only ADPT 802.11ac + USB 433Mbps 5v IC-ANT ETCH AO	Lungog-0407 Lungog-0407 McC F FC McC F FC MC

• See our website to download any applicable Product Software, Manuals and Notes - http://www.lm-technologies.com/downloads

www.lm-technologies.com

Product Part No LM808

See Below