

## ZCN-722M IEEE 802.11b/g/n High-Powered USB Module AirRunner™ WiFi Series

Zcomax Technologies, Inc. has released its latest in a new line of Air Runner™ wireless USB Adapters. The ZCN-722M is an 802.11b/g/n USB module designed for streamlined integration into the latest Wi-Fi enabled devices. Equipped with a 5-pin 2.54mm pitch connector, the ZCN-722M is ready for immediate implementation into USB applications. The ZCN-722M is a superior USB module that exceeds both IEEE 802.11b/g/n and FCC regulatory requirements.



The AR9271 chipset gives the ZCN-722M exceptional flexibility and performance by offloading the wireless processing overhead from the host appliance into its own CPU and memory. This new architecture enables the ZCN-722M to offer wireless functionality to legacy and other devices that would otherwise be unable to use this type of connectivity.

The ZCN-722M is a superb choice for any wireless application requiring enhanced connectivity and performance in the USB form.

### ZCN-722M at a glance

- IEEE 802.11b/g/n compliant
- 23dBm Tx output power
- -94 dBm @ 54Mbps Rx sensitivity
- U.FL antenna connector
- USB 2.0 interface
- FCC and ROHS compliant
- Chipset Family – Atheros AR9002
- Up to 150Mbps connections
- WPS – easy security setup
- WMM support

### ZCN-722M at a Glance

<b>Chipset</b>	Atheros AR9271
<b>Transmit Power</b>	23 dBm
<b>Receive Sensitivity</b>	-94dBm @ 11Mbps

IEEE	Radio	RoHS	Interface

Radio Specification			
Standard	IEEE 802.11b/g/n (draft 5.0) Compliant		
Chipset	Atheros AR9271; 1 TX , 1 RX Architecture		
Modulation	DSS: CCK, DQPSK, DBPSK		
	OFDM: BPSK, QPSK, 16-QAM, 64-QAM		
	11n: BPSK, QPSK, 16-QAM, 64-QAM		
RF Frequency	<b>USA (FCC)</b>	<b>Europe (ETSI)</b>	<b>China</b>
IEEE 802.11b/g ISM Band	2.412GHz ~ 2.462GHz	2.412GHz ~ 2.472GHz	2.412GHz ~ 2.472GHz
IEEE 802.11gn 20MHz band	2.412GHz ~ 2.462GHz	2.412GHz ~ 2.472GHz	2.412GHz ~ 2.472GHz
IEEE 802.11gn 40MHz band	2.422GHz ~ 2.452GHz	2.422GHz ~ 2.462GHz	2.412GHz ~ 2.472GHz
RF Output Power (± 2dB)	<b>IEEE 802.11b</b>	23dBm	
	<b>IEEE 802.11g</b>	23dBm @ 6Mbps; 21dBm @ 54Mbps	
	<b>IEEE 802.11gn</b>	HT20 / HT40 = 23dBm @ MCS0; 21dBm @ MCS7	
Receiver Sensitivity	<b>IEEE 802.11g</b>	<b>IEEE 802.11b</b>	<b>IEEE 802.11gn</b>
	-75dBm @ 54Mbps	-94dBm @ 11Mbps	-90dBm @ HT20 (MCS0) -88dBm @ HT40 (MCS0)
Antenna Design	1Tx 1Rx – 1 U.FL Compliant Connector		
Power Consumption	IEEE 802.11b/g/n Tx ≤ 750mA, Rx ≤ 300mA		

Physical Specification	
Interface	USB 2.0
Dimensions	65.0(L)*20.9(W)*1.0(H)mm
Operating voltage	DC 5V ± 5%
Working Temperature	-40°C to 80°C, < 80% relative humidity (non-condensing)
Storage Temperature	-40°C to 80°C, 5-90% relative humidity (non-condensing)

Features		
Supported OS	Linux 2.6 / Windows XP / Vista (32-bit & 64-bit) / Windows 7	
WLAN	Network Modes	AP Mode STA Mode
	Radio Mode	2.4GHz
	Encryption	64/128 WEP, TKIP/AES
	Authentication	WPS, WEP, WPA, WPA2
	Advanced Functions	ACS
		ACL
		VLAN
		Ethernet Dongle Mode
		11n Aggregation
		Rate Control
	Static HT20 / HT40	

Features		
WLAN	Advanced Functions	PSPF
		Hidden SSID
		Power Save, Cab Queue
		Packet Logging

Warranty	
Warranty Period	1 Year limited warranty from the date of purchase

Pin Definition		
Pin #		Pin Description
1		NOP (reserved)
2		VCC (+5V)
3		USB_D-
4		USB_D+
5		GND

