

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 @ 11Mbps 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

Chipset	Atheros AR9271
Transmit Power	23 dBm
Receive Sensitivity	-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	USA (FCC)	Europe (ETSI)	China
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)	IEEE 802.11b	23dBm	
	IEEE 802.11g	23dBm @ 6Mbps; 21dBm @ 54Mbps	
	IEEE 802.11gn	HT20 / HT40 = 23dBm @ MCS0; 21dBm @ MCS7	
Receiver Sensitivity	IEEE 802.11g	IEEE 802.11b	IEEE 802.11gn
	-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
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Pin Definition

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

