

AG-623CN-49 IEEE 802.11a/b/g Mini PCI Module

AirRunner™ WiFi Series

The Zcomax AG-623CN-49 is one of the Industry's most versatile WiFi cards. The AG-623CN-49 not only supports the ISM 2.4GHz and 5GHz UNII bands but also has 4.9GHz support for the Public Safety Band, brought to the forefront with the increasing needs of Homeland Security projects. Utilizing the field proven Atheros AR5413 802.11a/b/g chipset ensures that quality is maintained while remaining a cost effective choice for a wide array of projects. This wireless mini PCI module has been purposely designed with integrated applications in mind. Its low profile external antenna connectors and standard mini PCI form, ensure that the AG-623CN-49 will fit into any design supporting the mini PCI form factor.



The AG-623CN-49's reliable design helps to reduce the overall costs associated with wireless integration by eliminating the need for the debugging and driver support commonly associated with designing a product from the "ground up". The AG-623CN-49 module is a robust plug and play ready device that has support for both windows and Linux operating systems and widely supported by the MADWiFi community.

For more information on this or any other Zcomax product please contact one of our sales professionals today.

AG-623CN-49 mPCI Module

Key Features

- IEEE 802.11a/b/g compliant
- Supports 4.9GHz Public Safety Band
- Small mini PCI form factor
- Based on Atheros AR5006X Family
- Chipset: Atheros AR5413
- Tx power 22dBm
- Receive sensitivity -95dB
- 2 x Hirose u.FL antenna connectors
- RoHS compliant

AG-623CN-49 at a Glance

Chipset	Atheros AR5413
Transmit Power	22dBm
Public Safety Band	Supports 4.9GHz

IEEE	Radio	RoHS	Interface
			

Radio Specification				
802.11 Standard	IEEE 802.11a/b/g compliant			
Chipset	Atheros AR5413			
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM			
Supported Frequency Ranges	Public Safety Band - 4.940Ghz ~ 4.990GHz			
	ISM Band: FCC-2.412GHz ~ 2.462GHz, ETSI-2.412GHz ~ 2.472GHz			
	UNII : FCC-5.15GHz~5.850GHz, ETSI 5.15GHz~5.35GHz, 5.47GHz~5.725GHz			
RF Output Power (± 2dB)	OFDM Data Rate	2.4GHz	4.9GHz	5GHz
	6 ~ 24 Mbps	21dBm	18dBm	18dBm
	36 Mbps	19dBm	16dBm	16dBm
	48Mbps	18dBm	14dBm	14dBm
	54Mbps	16.5dBm	12.5dBm	12.5dBm
IEEE 802.11b DSSS (1 ~ 11Mbps) = 22dBm				
Receiver Sensitivity	OFDM Data Rate	2.4GHz	4.9GHz	5GHz
	6Mbps / 9Mbps	-91dBm / -90dBm	-90dBm / -88dBm	-90dBm / -88dBm
	12Mbps / 18Mbps	-88dBm / -86dBm	-86dBm / -84dBm	-86dBm / -84dBm
	24 Mbps / 36 Mbps	-83dBm / -79dBm	-81dBm / -77dBm	-81dBm / -77dBm
	48Mbps / 54Mbps	-75dBm / -74dBm	-73dBm / -72dBm	-73dBm / -72dBm
IEEE 802.11b DSSS: 1Mbps/11Mbps = -95dBm / -87dBm				
Power Consumption	IEEE 802.11a/b/g Tx ≤ 550mA, Rx ≤ 450mA			

Physical Specification	
Interface	32-bit Mini PCI
Dimensions	59.6mm x 38.5mm x 4.15mm
Weight	≤ 50g
Operating voltage	DC 3.3V ± 5%
Working Temperature	-10°C to 65°C, < 80% relative humidity (non-condensing)
Storage Temperature	-40°C to 85°C, 5-90% relative humidity (non-condensing)
Green Information	RoHS Compliant
Antenna Connectors	2 x u.FL antenna connectors

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