

XN-623 IEEE 802.11b/g/n 2.4GHz Mini PCI Module AirRunner™ WiFi Series

The XN-623 is Zcomax latest 802.11b/g/n wireless mini PCI adapter that delivers incomparable wireless performance no matter what the host platform is. The IEEE 802.11b/g/n draft 2.0 compliant mini PCI adapter supports a throughput rate of up to 300Mbps, providing Ethernet equivalent speeds to your applications. Once connected, your device can share a high-speed Internet connection, photos, files, music, videos, printers, and storage just like a wired connection.

The XN-623 operates in the license exempt WiFi bands in the 2.4GHz range of IEEE 802.11b/g networks. Utilizing the MIMO (Multiple-input multiple-output) design implementation, the XN-623 provides 2 U.FL-R SMT Compliant antenna connectors which ensure quick and easy implementation into your existing setup or developing product.

The XN-623 offers the flexibility of the mini PCI design, the reliability and performance of an Atheros based chipset and the quality you expect from a Zcomax product. We're sure you'll be pleased with this product. For more information on this or any other Zcomax product please contact your sales representative today.



XN-623 mPCI Module

Key Features

- High-speed networking (802.11n) , data rates up to 300Mbps @ 40MHz bandwidth
- Multiple-Input-Multiple-Output (MIMO) technology using 2*2 architecture
- MAC / Baseband: Atheros AR9223
- IEEE 802.11b/g/n
- RoHS compliant

XN-623 at a Glance

Chipset	Atheros AR9223
Transmit Power	17dBm
Receive Sensitivity	≤ -83 dBm @ 11 Mbps data rate
Antenna Configuration	2 Tx, 2 Rx Architecture

IEEE	Radio	RoHS	Interface

Radio Specification				
Standard	IEEE 802.11b/g/n (draft 2.0) compliant			
Chipset	Atheros AR9223; 2 TX , 2 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)	Japan (TELEC)	
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	2.422GHz ~ 2.462GHz	
RF Output Power (± 2dB)	IEEE 802.11b	17dBm (2 TX)		
	IEEE 802.11g	14dBm (2 TX)		
	IEEE 802.11gn	HT20	14dBm (2 TX)	
		HT40	11dBm (2 TX)	
Receiver Sensitivity	IEEE 802.11a/g	IEEE 802.11b	IEEE 802.11an/gn	
	-72dBm @ 54Mbps	-80dBm @ 11Mbps	-67dBm @ HT20 (MCS15)	
Antenna Design	2Tx 2Rx – 2 U.FL-R SMT Compliant Connectors			
Power Consumption	IEEE 802.11b/g/n Tx ≤ 550mA, Rx ≤ 350mA			

Physical Specification	
Interface	32-bit Mini PCI
Dimensions	59.6mm x 50.95mm x 3.25mm
Weight	≤ 20g
Operating voltage	DC 3.3V ± 5%
Working Temperature	0°C to 55°C, < 80% relative humidity (non-condensing)
Storage Temperature	-20°C to 80°C, 5-90% relative humidity (non-condensing)
Green Information	RoHS Compliant

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