

## XN-625 IEEE 802.11b/g/n 2.4GHz Mini PCI Module

AirRunner™ WiFi Series

The XN-625 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-625 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-625 provides 2 U.FL-R SMT Compliant antenna connectors which ensure quick and easy implementation into your existing setup or developing product.

The XN-625 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-625 mPCI Module

#### Key Features

- High-speed networking (802.11n) ,  
date rates up to 300Mbps @ 40MHz  
bandwidth
- Multiple-Input-Multiple-Output (MIMO)  
technology using 2\*2 architecture
- MAC / Baseband: Atheros AR9227
- IEEE 802.11b/g/n
- RoHS compliant

#### XN-625 at a Glance

<b>Chipset</b>	Atheros AR9227
<b>Transmit Power</b>	15.5 dBm
<b>Receive Sensitivity</b>	≤ -80 dBm @ 11 Mbps data rate
<b>Antenna Configuration</b>	2 Tx, 2 Rx Architecture

IEEE	Radio	RoHS	Interface
			

Radio Specification				
Standard	IEEE 802.11b/g/n (draft 2.0) compliant			
Chipset	Atheros AR9227; 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	<b>USA (FCC)</b>	<b>Europe (ETSI)</b>	<b>Japan (TELEC)</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	2.422GHz ~ 2.462GHz	
RF Output Power ( $\pm$ 2dB)	<b>IEEE 802.11b</b>	15.5 dBm		
	<b>IEEE 802.11g</b>	15.5 dBm		
	<b>IEEE 802.11gn</b>	HT20	15.5dBm @ (MCS0-3/8-11)	
		HT40	11dBm @ (MCS0-3/8-11)	
Receiver Sensitivity	<b>IEEE 802.11g</b>	<b>IEEE 802.11b</b>	<b>IEEE 802.11gn</b>	
	-69dBm @ 54Mbps	-80dBm @ 11Mbps	-66dBm @ HT20 (MCS7)	
Antenna Design	2Tx 2Rx – 2 U.FL-R SMT Compliant Connectors			
Power Consumption	IEEE 802.11b/g/n Tx $\leq$ 600mA, Rx $\leq$ 450mA			

Physical Specification	
Interface	32-bit Mini PCI, Type III B
Dimensions	59.6mm x 44.45mm x 4mm
Weight	$\leq$ 50g
Operating voltage	DC 3.3V $\pm$ 5%
Working Temperature	-20°C to +75°C, < 80% relative humidity (non-condensing)
Storage Temperature	-20°C to +80°C, 10-90% relative humidity (non-condensing)
Green Information	RoHS Compliant

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