

XG-624S IEEE 802.11b/g 2.4GHz Mini PCI Module

AirRunner™ WiFi Series

The XG-624S is Zcomax latest, AR2417 based 802.11b/g wireless mini PCI module that has been designed specifically for integrated applications. With its low profile external antenna connectors and standard mini PCI form, the XG-624S will fit into any design that supports the mini PCI form factor. The XG-624S is a cost effective module that maintains Atheros high performance standards.

The XG-624S operates in the license exempt WiFi bands in the 2.4GHz range of IEEE 802.11b/g networks. The reliable design helps to reduce 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 XG-624S module is a robust plug and play ready device that has support for both windows and Linux operating systems.

The XG-624S offers the flexibility of the mini PCI design, the reliability and performance of one of Atheros’ industry leading single-chip solutions and the quality you expect from a Zcomax product. For more information on this or any other Zcomax product please contact one of our sales professionals today.



XG-624S mPCI Module

Key Features

- 32-bit mPCI Interface Type III A
- Half-size mini PCI form factor
- Based on Atheros AR5007 Family
- Chipset: Atheros AR2417
- IEEE 802.11b/g compliant
- RoHS compliant
- 2 x Hirose u.FL antenna connectors
- Cost effective solution

XG-624S at a Glance

Chipset	Atheros AR2417
Transmit Power	15.5dBm
Receive Sensitivity	≤ -80 dBm @ 11 Mbps data rate

IEEE	Radio	RoHS	Interface

Radio Specification			
Standard	IEEE 802.11b/g compliant		
Chipset	Atheros AR2417		
Modulation	DSS: CCK, DQPSK, DBPSK		
	OFDM: 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
RF Output Power (± 2dB)	IEEE 802.11b	15.5dBm @ 1-11Mbps	
	IEEE 802.11g	13.5dBm @ 54Mbps 14.5dBm @ 6-48Mbps	
Receiver Sensitivity	IEEE 802.11b	IEEE 802.11g	
	-80dBm @ 11Mbps	-68dBm @ HT20 (MCS15)	
Power Consumption	IEEE 802.11b/g Tx ≤ 650mA, Rx ≤ 300mA		

Physical Specification	
Interface	32-bit Mini PCI
Dimensions	59.6mm x 29.2mm x 3.25mm
Weight	≤ 50g
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
Antenna Connectors	2 u.FL antenna connectors

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