

XN-691 IEEE 802.11b/g/n 2.4GHz Mini PCI Module
AirRunner™ WiFi Series

The XN-691 is one of the latest Zcomax 802.11b/g/n wireless mini PCI adapters that delivers incomparable wireless performance for an array of host platforms. 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 through a wired connection.



The XN-691 operates in the license exempt WiFi bands of IEEE 802.11b/g, 2.4GHz networks. Utilizing the MIMO (Multiple-input multiple-output) design architecture, the XN-691 provides 3 U.FL-R SMT compliant antenna connectors which ensure quick and easy implementation into your existing setup or developing product.

The XN-691 offers the flexibility of the mini PCI design, the reliability and performance of a Ralink based chipset and the quality you expect from a Zcomax product. For more information on this or any other of our exciting wireless products please contact a sales professional today.

XN-691 mPCI Module

Key Features

- High-speed networking (802.11n) ,
date rates up to 300Mbps @ 40MHz
bandwidth
- Multiple-Input-Multiple-Output (MIMO)
technology using 2*3 architecture
- MAC / Baseband: Ralink RT2880
- RF: Ralink RT2820
- IEEE 802.11b/g/n
- RoHS compliant

XN-691 at a Glance

Chipset	Ralink RT2880 / RT2820
Transmit Power	18 dBm
Receive Sensitivity	≤ -84 dBm @ 11 Mbps
Antenna Configuration	2 Tx, 3 Rx Architecture

IEEE	Radio	RoHS	Interface

Radio Specification				
Standard	IEEE 802.11b/g/n (draft 2.0) compliant			
Chipset	Ralink RT2880 / RT2820; 2 TX , 3 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	18dBm (1 TX)		
	IEEE 802.11g	17dBm (1 TX)		
	IEEE 802.11gn	HT20	17dBm (2 TX)	
		HT40	17dBm (2 TX)	
Receiver Sensitivity	IEEE 802.11g	IEEE 802.11b	IEEE 802.11n/gn	
	-72dBm @ 54Mbps	-84dBm @ 11Mbps	-68dBm @ HT20 (MCS15) -65dBm @ HT40 (MCS15)	
Antenna Design	2Tx 3Rx – 2 U.FL-R SMT Compliant Connectors			
Power Consumption	IEEE 802.11b/g/n Tx ≤ 850mA, Rx ≤ 650mA			

Physical Specification	
Interface	32-bit Mini PCI
Dimensions	59.6mm x 44.45mm x 3.5mm
Weight	≤ 15g
Operating voltage	DC 3.3V ± 5%
Working Temperature	0°C to 55°C, < 80% relative humidity (non-condensing)
Storage Temperature	-20°C to 70°C, 5-90% relative humidity (non-condensing)
Green Information	RoHS Compliant

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