

XN-750 IEEE 802.11b/g/n 2.4GHz USB Module

AirRunner™ WiFi Series

The XN-750 is Zcomax's latest 802.11b/g/n wireless USB v2.0 adapter that delivers incomparable wireless performance no matter what host platform is being used. The IEEE 802.11b/g/n, draft 2.0 compliant USB adapter supports uplink throughput rates that are the equivalent to or exceed traditional Ethernet performance and allow access to a corporate network or the Internet in a wireless environment. Once connected, your device will be able to access a high-speed Internet connection, photos, files, music, videos, printers, and storage just like a wired connection.

The XN-750 operates in the license exempt WiFi 2.4GHz bands avoiding the costs associated with licensing RF spectrum. The XN-750 provides two embedded antennas, one dedicated to transmitting and two dedicated to receiving, ensuring not only the optimization of speed but also maximizing coverage.



XN-750 USB Device

Key Features

- High-speed IEEE 802.11n
- 2.4GHz radio operation
- Supports IEEE 802.1x and 802.11i security protocols
- Multiple-Input-Single-Output (MISO) technology using 1*2 embedded antenna design
- USB v2.0 compliant

XN-750 at a Glance

Chipset	Realtek RTL8191SU
Transmit Power	16 dBm
Receive Sensitivity	-90 dBm @ 6 Mbps data rate
Antenna Configuration	1T2R Integrated

IEEE	Radio	RoHS	Interface

Radio Specification				
Standard	IEEE 802.11b/g/n (draft 2.0) compliant, USB 2.0 compliant			
Chipset	Realtek RTL8191SU			
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) (including antenna gain)	IEEE 802.11b	1/2/5.5/11M = 16dBm		
	IEEE 802.11g	6~54Mbps = 15dBm		
	IEEE 802.11gn	HT20 MCS 0~7	14dBm	
		HT40 MCS 0~7	12dBm	
Receiver Sensitivity	IEEE 802.11g	IEEE 802.11b	IEEE 802.11n HT20	IEEE 802.11n HT40
	-72dBm @ 54Mbps	-85dBm @ 11Mbps	-70dBm @ MSC15	-66dBm @ MCS15
Antenna Design	1T2R Integrated PCB antenna			
Power Consumption	IEEE 802.11b/g/n Tx ≤ 350mA, Rx ≤ 350mA			
LED Definitions	Activity / WPS Off: State = powered off / driver not installed			
	Activity / WPS blinking: State = Scan state / connect to AP / Data transfer			
	Activity / WPS Fast Blinking (3/sec): State = WPS synchronization			
	Link off: Power off			
	Link on: Connect to AP			

Software	
Standards	IEEE 802.11i and IEEE 802.1x
Security	WPA / WPA2 / WPA-PSK / WPA2-PSK, 64 & 128-bit WEP, 802.1x
WPS	PBC (Push Button), Clients PIN (Enrollee), AP's PIN (Registrar)
Supported OS	Win2k / XP (x86/x64), Vista (x86/x64)
Power Management	Power save mode
Operating modes	Infrastructure and Ad-hoc

Physical Specification	
Interface	USB 2.0
Dimensions	50.4mm * 25mm * 9.25mm
Weight	≤ 8g
Operating voltage	DC 5V ± 5%
Working Temperature	0°C to 55°C, 80% relative humidity (non-condensing)
Storage Temperature	-10°C to 65°C, 95% relative humidity (non-condensing)
Lead Free	RoHS Compliant

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