

XG-762M IEEE 802.11b/g USB Module
AirRunner™ WiFi Series

Zcomax Technologies, Inc. has released its new line of Air Runner™ wireless USB Adapters. The XG-762M is an 802.11b/g 54Mbps USB stick module that has been designed with the integration market in mind. With standard USB 2.0 form, the XG-762M will fit into any design that has a USB host interface. The XG-762M is a superior USB module that exceeds both IEEE 802.11b/g and FCC regulatory requirements.



The XG-762M's external antenna design provides the flexibility to adapt to a preexisting application or can be designed with whatever antenna is best suited for the application. The XG-762M USB device is a robust plug and play ready module with support for Windows 2K/XP(32&64bit) /Vista operating systems.

The XG-762M is a superb choice for any wireless application requiring enhanced connectivity and performance in the USB form.

XG-762M at a glance

- IEEE 802.11g Compliant
- 15dBm Tx Output Power
- -69 dBm @ 54Mbps Rx Sensitivity
- U.FL-R-SMT Compliant Connector
- USB 2.0 Interface
- FCC and ROHS Compliant
- Chipset - Atheros AR5007 Based
- MAC / Baseband - Atheros AR2425
- Radio - Airoha AL2330S
- Industrial Temp Spec: -40° ~ 85°C

XG-762M at a Glance

Chipset	Atheros AR2425
Transmit Power	15 dBm
Receive Sensitivity	-69dBm @ 54Mbps

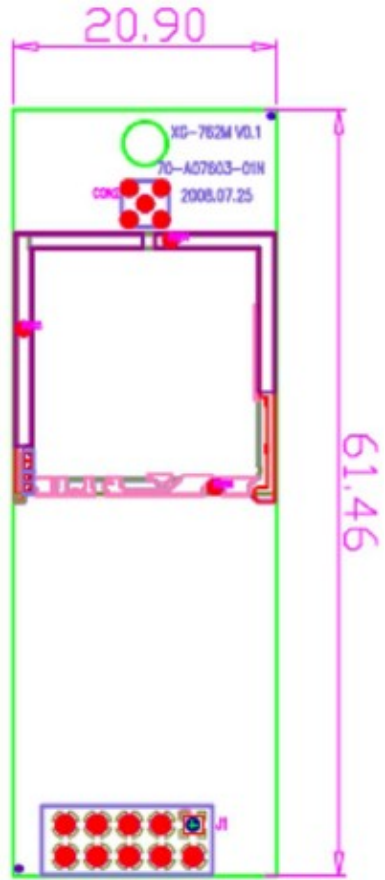
IEEE	Radio	RoHS	Interface

Radio Specification				
802.11 Standard	IEEE 802.11b/g compliant			
Chipset	MAC/BB: Atheros AR2425; Radio: Airoha AL2330S			
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM			
Supported Frequency Ranges	ISM Band: FCC-2.412GHz ~ 2.462GHz, ETSI-2.412GHz ~ 2.472GHz			
RF Output Power (± 2dB)	OFDM Data Rate		DSSS Data Rate	
	6 ~ 24 Mbps	15dBm	1 Mbps	15dBm
	36 Mbps	15dBm	2 Mbps	15dBm
	48Mbps	15dBm	5.5 Mbps	15dBm
	54Mbps	14dBm	11 Mbps	15dBm
Receiver Sensitivity	OFDM Data Rate		DSSS Data Rate	
	6Mbps / 9Mbps	-87dBm / -85dBm	1 Mbps	-91dBm
	12Mbps / 18Mbps	-83dBm / -80dBm	2 Mbps	-89dBm
	24 Mbps / 36 Mbps	-77dBm / -76dBm	5.5 Mbps	-87dBm
	48Mbps / 54Mbps	-71dBm / -69dBm	11 Mbps	-85dBm
Power Consumption	IEEE 802.11a/b/g Tx ≤ 380mA, Rx ≤ 280mA			

Physical Specification	
Interface	USB 2.0
Dimensions	20.9mm x 61.46mm
Operating voltage	DC 5V ± 5%
Working Temperature	-40°C to 85°C, < 80% relative humidity (non-condensing)
Storage Temperature	-50°C to 90°C, 5-90% relative humidity (non-condensing)

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

PCB Outline	
Unit of measure	millimeter



USB Interface

