



## Ultimate Performance

AN-621 is a IEEE802.11a/b/g/N\* wireless embedded module that delivers incomparable wireless performance. This wireless module offers up to 5x faster speeds than 802.11g while staying backward compatible with 802.11a , 802.11g and 802.11b networks.

## 2.4GHz and 5GHz co-existence

Operating at both 2.4GHz and 5GHz frequency bands, AN621 is the ideal solution to add 802.11N Wireless feature to the broadband or digital Video/Audio platform. Avoid the interference in 2.4GHz frequency, by using the 5GHz band, you can stream Audio and Video files wirelessly to your entertainment systems with the ensured quality, even during heavy data usage.

## MIMO (Multiple-input multiple-output ) Technologies

Based on the advanced MIMO technologies, AN-621 provides 3 external antenna connectors as option, which ensures not only the optimization of the speed, but also the maximum coverage.

## Integration with Least Effort

With Z-COM's exceptional & well-known experience in module embedded support, our assistance lessens integration efforts in EMC, antenna location and system engineering.

Product Description					
IEEE 802.11abgN 2.4GHz & 5GHz WLAN miniPCI card					
Host Interface					
32-bit mini-PCI, Type III A					
Operating Voltage					
DC3.3V $\pm$ 5%					
Power Consumption					
11b	TX: $\leq$ 1.1 A			RX: $\leq$ 600 mA	
11g	TX: $\leq$ 1.1 A			RX: $\leq$ 600 mA	
11n	TX: $\leq$ 1.1 A			RX: $\leq$ 600 mA	
Radio					
Antenna	Three U.FL-R-SMT connectors				
Output Power (Maximum)	IEEE 802.11b: 17dBm @ 11Mbps	IEEE 802.11g: 17dBm @ 54Mbps	IEEE 802.11n: 15dBm @ HT20 12dBm @ HT40	IEEE 802.11a: 17dBm @ 5GHz	IEEE 802.11a/n: 17dBm @ HT20 17dBm @ HT40
Sensitivity	11b:11Mbps: $\leq$ -80dBm 11g:54Mbps: $\leq$ -65dBm 11n:HT20: $\leq$ -62dBm HT40 : $\leq$ -59dBm				
Operating Frequency	IEEE 802.11b/g ISM Band; 802.11n 20MHz/ 40MHz US, Canada: 2.412GHz ~ 2.462 GHz (CH1 ~ CH11) EU, Japan: 2.412 GHz ~ 2.472 GHz (CH1 ~ CH13)				
	IEEE 802.11a ISM Band USA, Canada: 5.15GHz ~ 5.35 GHz ; 5.725Hz ~ 5.850 GHz; EU, Japan: 5.15 GHz ~ 5.35 GHz ; 5.47GHz ~ 5.725GHz				
Modulation	IEEE 802.11b (DSSS): CCK, DQPSK, DBPSK IEEE 802.11a/g (OFDM/DSSS): QAM-64, QAM-16, QPSK, BPSK IEEE 802.11n (OFDM/DSSS): QAM-64, QAM-16, QPSK, BPSK				
Software Specification					
Supported OS	Win 2K SP4/ Win XP SP1, Vista and Linux				
Security	WEP 64,128,152-bit WPA,WPA2				
Physical Specification					
Dimension	59.6mm(L) * 50.9mm(W) * 3.25mm(H)				
Weight	$\leq$ 50 g				
Environment Specification					
	Temperature (Ambient)			Humidity (non-condensing)	
Operating	0 ~ 50 $^{\circ}$ C			80%	
Storage	-20 ~ 80 $^{\circ}$ C			5 ~ 90%	
Warranty					
12 months					