

XG-1021N

100mW High Power Access Point

Specification

HW Version: V0.3
DATE: 2008 September 10





Surf Anywhere!

1.Revision History

Date	Version	Author	Description
September 10, 2008	0.3	BEN	1st release



3F, No. 31, Lane 216, Gongyuan Rd.
HsinChu City, Taiwan 30069
T : 886-3-5616277 F : 886-3-5616275
<http://www.tw-wireless.com>

1. SPECIFICATION

1. 1. Hardware specification

The Hardware specifications of the product are as below:

Table2.1 Hardware specification

Items	Description					
Standard	IEEE802.11b/g					
Chipset	Atheros AR2315(Without Super G)					
Memory	Flah			SDRAM		
	4M			16M		
Host Interface	One 10/100 BASE-T RJ-45 Ethernet connector					
Restore to Default Button	Capable of restoring to the factory default settings					
LED Status	PWR & SYS: -On: Power & System on -OFF: PWR & System off WLAN: -Blinking: Data TX/RX through wireless access point -OFF : Wireless module disconnected -ON: Wireless module in active. Ethernet: -RJ-45 connector with LED					
Power Requirement	External power adapter: 12VDC @ 1.0 Amp Max. PoE IEEE 802.3af support					
Power Consumption	TX power consumption: 650mA(Power adaptor) RX power consumption: 400mA(Power adaptor) TX power consumption: 150mA(48v POE) RX power consumption: 75mA(48v POE)					
FCC RF Radiated Power ¹ <Tolerance:+1.5/ -1.5dB>	802.11g			802.11b		
	C1	C6	C11	C1	C6	C11
	17.5dBm	21.5dBm	19dBm	15dBm	21.5dBm	17.5dBm
Sensitivity	IEEE 802.11g Sensitivity @ Packet Error Rate: 10% 54Mbps: ≤ -74dBm 48Mbps: ≤ -76dBm 36Mbps: ≤ -81dBm 24Mbps: ≤ -83dBm 18Mbps: ≤ -87dBm 12Mbps: ≤ -87dBm 9Mbps: ≤ -86dBm 6Mbps: ≤ -94dBm			IEEE 802.11b Sensitivity @ Packet Error Rate: 8% 11Mbps: ≤ -88dBm 5.5Mbps: ≤ -90dBm 2Mbps: ≤ -92dBm 1Mbps: ≤ -97dBm		
Modulation	IEEE 802.11g (OFDM/DSSS) 48/54 Mbps (QAM-64) 24/36 Mbps (QAM-16) 12/18 Mbps (QPSK)			IEEE 802.11b (DSSS) 5.5/11 Mbps (CCK) 2 Mbps (DQPSK) 1 Mbps (DBPSK)		

¹ Measured with power meter (CW sensor) under 25°C room temperature

	6/9 Mbps (BPSK)
Operating Frequency	IEEE 802.11b/g ISM Band -Europe(ETSI): 2.412 GHz ~ 2.472 GHz (CH1 ~ CH13) -North America(FCC) : 2.412 GHz ~ 2.462 GHz (CH1 ~ CH11)
Antenna Type	1 detachable dipole antennas of 3dBi
Antenna Connector	1 Reverse SMA connectors

1. 2. Firmware specification

The Firmware specifications of the product are as below:

Table2.2 Firmware specification

Item	Description
Standard Compliance	IEEE 802.3 and 802.3u 10Base-T and 100Base-TX physical layer specification IEEE 802.11g specification compliance for wireless LAN IEEE 802.11b specification compliance for wireless LAN IEEE 802.1x security standard support Power over Ethernet, IEEE 802.3af compliant
Operating Mode	-AP mode <ul style="list-style-type: none"> - AP & Bridge simultaneously -Bridge mode. -Repeater mode -Client mode
DHCP Client	Ability to act as a DHCP client to get IP address from DHCP server from LAN port. In DHCP client mode, if DHCP server is not available, then use default IP address.
NetBIOS name resolution	Provides name resolution for device name
VPN pass through AP/Bridge mode	IPSec, PPTP and L2TP pass through support
Advanced filter for device management	User can specify the following to allow for device management including Web/FTP/Telnet <ul style="list-style-type: none"> - Interface (WLAN or Ethernet) - MAC address - IP address
System monitoring	-System status -Protocol trace
Management	<ul style="list-style-type: none"> - Embedded Web Configurator management - Command-line interface - Telnet support (Password-protected telnet access to internal configuration manager). - FTP/TFTP/Web for firmware downloading and configuration backup and restore. - Telnet remote access support. - Built-in Diagnostic Tool - SNMP Management - Limitation of client connections (# is configurable, default: unlimited), can be in the same GUI page of MAC address filter - NetBIOS name resolution, easy to manage device by using http://device name

Security	<ul style="list-style-type: none"> - MAC address filtering through WLAN (support 32 account) - IEEE 802.1x security (EAP-TLS, EAP-TTLS, and Win XP PEAP included) - 64/152 bits WEP - WPA/WPA2 support - Mixed WPA& WPA2 mode (support both WPA and WPA2 clients)
Diagnostics Capabilities	<ul style="list-style-type: none"> - The access point can perform self-diagnostic tests. These tests check the integrity of the following sections: - Syslog - Errorlog - Trace log - Packet Log

1. 3. Physical specification

The Physical specifications of the product are as below:

Table2.3 Physical specification

Items	Description	
Dimension	114mm(L)*109mm(W)*30mm(H)	
Weight	≤ 200g	

1. 4. Environment specification

The Environment specifications of the product are as below:

Table2.4 Environment I specification

Items	Description	
Operating Temperature	0~ + 50°C	
Operating Humidity (non-condensing)	20~95 [%RH]	
Storage Temperature	-30 ~ +60°C	
Storage Humidity (non-condensing)	10~90 [%RH]	
Warranty	12 Months	
Green	RoHs Compliant	