



## IEEE802.11g 108Mbps Wireless Access Point

### Product Description

For users seeking a simple solution to improve the reach of their wireless signal within their home or office, the ENRXWI-SG is the answer. This Wireless Access Point takes an existing 802.11g wireless signal and "repeats" it to enable wireless connectivity in the basement, patio, garage or any "dead spot" areas where your original wireless signal could not reach.

The ENRXWI-SG Wireless Access Point is capable of repeating the signal of virtually any 802.11g wireless router or access point out on the market today. At the same time, the ENRXWI-SG can still communicate with other 802.11b/g wireless client devices.

Setup takes only a couple of minutes and keeps your network free from additional cables. After quick configuration, place the Wireless Access Point in close proximity of your wireless router or access point and begin offering a reliable connection to the rest of your home.

The ENRXWI-SG Wireless Access Point also features WPA-PSK, WPA2-PSK and WEP for secure wireless communication over the network. With this level of security, your data is kept safe from the prying eyes of unauthorized users.

The ENRXWI-SG Wireless Access Point is the most cost efficient solution for increasing the range of your wireless network.

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### Features:

**Fully IEEE 802.11g and 802.11b standards compliant.**

**Highly efficient design mechanism to provide unbeatable performance achieving data rate up to 108 Mbps for 802.11g and 11 Mbps for 802.11b with wide range coverage.**

**Strong network security with 802.1x, and WEP encryption.**

**Auto-switch between the two standards IEEE 802.11 b and g that the corresponding networking device is using.**

**Support WEP encryption for network security.**

**Compliant with IEEE 802.3u and auto-negotiation.**

**Support Full-duplex 802.3x and Half-duplex back-pressure flow control.**

**Auto MDI/MDIX Fast Ethernet Port**

**LED indicator indicates connection status.**



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## Specification Tables:

### Standards

IEEE 802.11b Wireless LAN  
IEEE 802.11g Wireless LAN  
IEEE 802.3/IEEE 802.3u Fast Ethernet  
ANSI/IEEE 802.3 Auto negotiation

### Radio Technology

Direct Sequence Spread Spectrum (DSSS)  
Orthogonal Frequency Division Multiplexing (OFDM)

### Transmission Rate

802.11b: 1, 2, 5.5, 11Mbps (auto sense)  
802.11g: 6, 9, 12, 18, 24, 36, 48, 54, 108Mbps (auto sense)

### Receiver Sensitivity

54Mbps: Typical -70 @ 10% PER (Packet Error Rate)  
11Mbps: Typical -85 @ 8% PER (Packet Error Rate)

### Wireless LAN Frequency Range

2412 ~ 2484 MHz ISM band (channels 1 ~ 14)

### Modulation Schemes

DBPSK/DQPSK/CCK/OFDM

### Media Access Protocol

CSMA/CA with ACK

### Transmit Power

802.11g: 15±2dBm  
802.11b: 15±2dBm

### Antenna Type

Dual diversity antennas with one internal printed antenna and one external 2 dB Gain dipole antenna

### Protocol

TCP/IP

### Interface

LAN: 1 x 10/100Mbps Auto-MDIX Ethernet ports

**Supported Network Protocols**

802.3u: 10/100Mbps Fast Ethernet, IP v4, UDP, ICMP, TCP  
DHCP

**Network Management**

Web base configuration utility via Ethernet

**Channel**

USA: Channel 1 ~ 11  
Europe: Channel 1 ~ 13  
Japan: Channel 1 ~ 14

**Security**

WEP 64/128  
Wi-Fi Protected Access (WPA)  
WPA-PSK  
SSID Broadcast Disable function  
MAC Filter

**Range Coverage**

Indoor: 30 ~ 50 meters (depends on environment)  
Outdoor: 50 ~ 200 meters (depends on environment without XR)  
400 ~ 450 meters (depends on environment with XR)

**Diagnostic LEDs**

Power  
LAN: Link, ACT  
WLAN: ACT

**Power Adapter**

5V / 2A

**Operation Temperature**

0 ~ 40°C

**Storage Temperature**

-10 ~ 70°C

**Humidity**

10% ~ 95% RH, no condensation

**Certifications**

FCC Part 15.247 for US  
ETS 300 328 for Europe

**Dimensions (W x H x D)**

146 x 113 x 41 mm (without antenna)

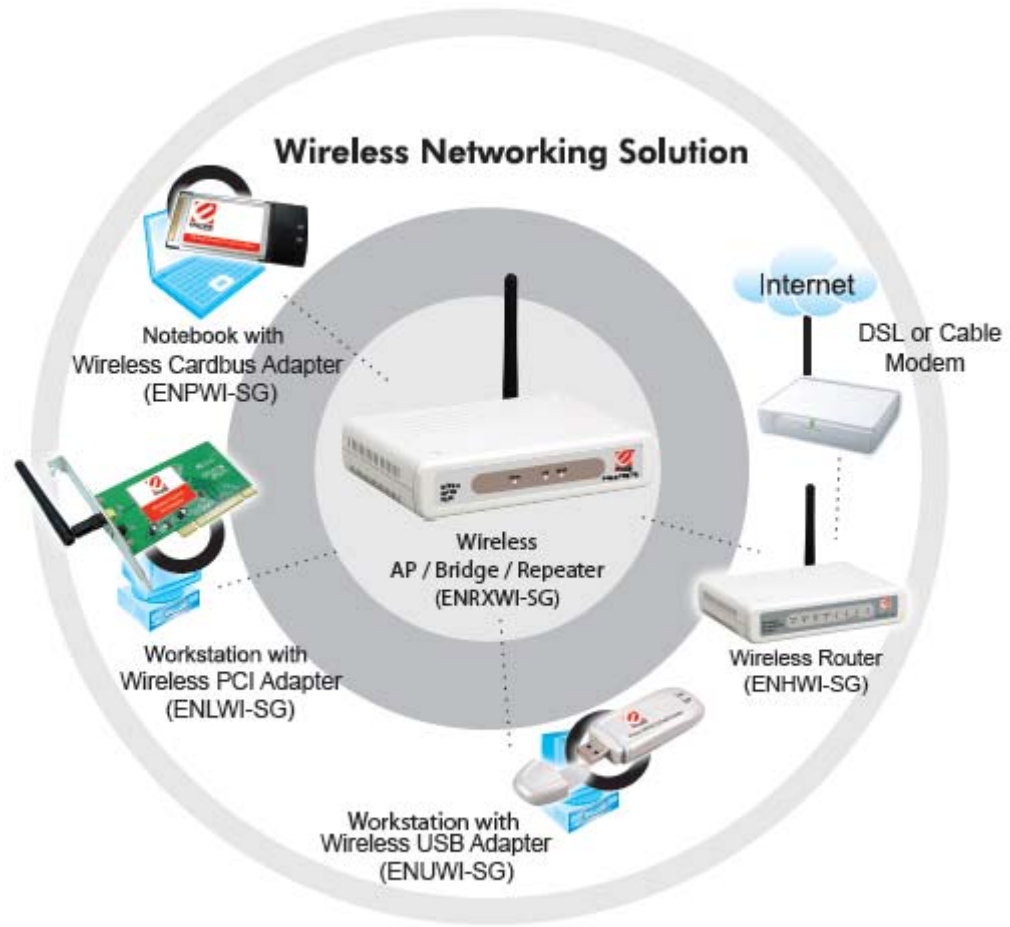


Figure 1: Usage Diagram