

Expand your company's network to another building and avoid congested 2.4 GHz wireless traffic.



## Long-range 5 GHz Wireless N300 Outdoor Bridge

Includes PoE injector kit for versatile installation

ENS500 is a high-speed, long-range outdoor 802.11n Wireless N300 Bridge that operates on the 5GHz band so it avoids the congested wireless traffic from devices on the more commonly used 2.4 GHz frequency band. This makes the ENS500 an ideal solution for building-to-building wireless bridging, for stable streaming of video from connected IP security cameras in parking lots or garages back to a company network, or for sending data to outdoor digital signage.

The ENS500 is compliant with the IEEE802.11 a/n standard delivering a wireless data rate of up to 300Mbps. It features an internal directional 10 dBi MIMO (Multiple In/Multiple Out) antenna that coupled with its strong transmit power of up to 400mW makes the ENS500 a compelling performance solution for small and growing businesses at a very affordable price. The ENS500 can also be used in other operational modes including as an Access Point. When used as an Access Point it should be positioned in such a way, because of its more focused directional antenna signal array, to offer wireless network connectivity to a more defined outdoor venue rather than a more general outdoor area around it.

ENS500 also features a robust security feature set that includes support for WPA/WPA2 Personal and Enterprise encryption, 802.1x RADIUS authentication, hidden SSID and MAC address filtering.

The ENS500 also features an IP65 rated weatherproof housing that ensures continued operation in harsh outdoor environments or in climates of extreme cold, heat or continuous moisture.

### Key Features

- + 400mW high transmit power enabling long range connectivity
- + Designed for outdoor deployment with IP65 waterproof housing
- + Supports IEEE802.11a/n wireless standards with up to 300 Mbps data rate
- + Integrated dual-polarity internal 10 dBi directional MIMO antenna
- + Signal strength LED indicators, pole mount kit, PoE kit provide easy installation
- + Can be monitored after deployment with EnGenius EZ Controller™ software for Windows

## Hardware

RF: 2.4 GHz Frequency Band  
Memory: 64MB  
Flash: 16MB

## Antenna

Internal 10dBi Directional Antenna with Dual Polarization

## Physical Interface

2 x RJ-45 Fast Ethernet (10/100 Mbps)  
1 x Reset Button

## Power Requirements

- Active Ethernet (Power-over-Ethernet)  
- Proprietary PoE design  
- Power Adapter (United States) 24V / 0.6A

## RF Specification

Frequency Band  
5 GHz  
IEEE 802.11a/n

## Data rate

Up to 300 Mbps

## Software

### Operation Modes

Access Point / Client Bridge / Client Router / WDS

### Wireless/Network

Auto Channel Selection  
Distance Control (802.1x Ack timeout)  
CLI (Command Line Interface) Supported  
802.1x RADIUS Supplicant (CB Mode)  
Multiple SSID (4 SSID), BSSID  
WDS AP / WDS Bridge / WDS Station  
Multicast Supported  
VLAN Tagging / VLAN Pass-through  
Auto Reboot  
Wi-Fi Scheduling

### Security

WPA/WPA2 Personal (WPA-PSK using TKIP or AES)  
WPA/WPA2 Enterprise (WPA-EAP using TKIP)  
Hide SSID in beacons  
MAC address filtering, up to 50 field  
Wireless STA (Client) connected list

### QoS (Quality of Service)

WMM (Wireless Multimedia)

## ENVIRONMENT & MECHANICAL

### Temperature Range

Operating -20°C~70°C / -4°F~158°F  
Storage -30°C to 80°C / -22°F to 176°F  
Humidity (non-condensing)  
0% ~ 90% typical

## Weights & Measures

### ENS500EXT Device

Weight: 0.67 lbs.  
Width: 3.9"  
Length: 7.3"  
Height: 1.14"

### Packaging

Weight: 1.56 lbs.  
Width: 2.8"  
Length: 12.2"  
Height: 9.2"

## Package Contents

- ENS500 Bridge
- Power Adapter
- PoE Injector (EPE1212)
- Pole Mount set
- Screw Set
- Quick Start Guide
- Technical Support Card

