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.

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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: 5 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

Ethernet Port
PoE Port

LAN Port
Power Connector
PoE Port