EnGenius®

ENS200

Outdoor Long Range Wireless N150 Bridge/AP

400mW TRANSMIT POWER FOR LONG-RANGE COVERAGE

- Offers superior wireless network coverage over other brands
- Perfect for Point-to-Point wireless links

UP TO 150Mbps WIRELESS SPEED

- In Wireless-N mode, maximum data rate reaches up to 150Mbps when connected to another Wireless-N device
- Complies with IEEE802.11b/g/n standards

BUILT-IN DIRECTIONAL ANTENNA

- Integrated dual-polarity directional antenna ideal for wireless bridging
- Dual polarity design allows adjustment to the environment

PoE KIT & MAST STRAP INCLUDED

- PoE (Power-over-Ethernet) kit includes PoE injector and power adapter
- Mast strap

DESIGNED FOR OUTDOOR ENVIRONMENTS

- IP65 waterproof housing and UV coating for prolonged exposure to sunlight

ROBUST SECURITY

- ENS200 also includes a robust set of security features including WPA/WPA2 Personal and Enterprise encryption, 802.1x RADIUS authentication, hidden SSID and MAC address filtering.

The EnGenius ENS200 is a high-performance, cost-effective 802.11n 2.4GHz Wireless Outdoor Bridge/AP with speeds up to 150Mbps. This Bridge/AP features up to 400mW transmit power for longer range building-to-building wireless bridge connections or for Wireless ISP deployments as a CPE (Customer Premise Equipment) solution.

The ENS200 can be configured to work in a variety of operation modes – as an Access Point, WDS (Wireless Distribution System) AP, WDS station, as well as a WDS bridge. The multiple operation modes of the ENS200 make it a versatile solution for creating a high-speed, stable and secure outdoor wireless link between buildings; for offering wireless access to a hosted Internet connection in a retirement home community or an RV park; or for users in RV parks, campgrounds and marinas to access an available public Wi-Fi hotspot.

		Client Bridges/APs		
EnGenius® Get Connected	Get EnGenius		**ENS200** Long Range 2.4GHz Wireless-N Outdoor Client Bridge/ Access Poin	**ENH200** Long Range 2.4GHz Wireless-N Outdoor Client Bridge/ Access Poin	**ENH202** Long Range 2.4GHz Wireless-N Outdoor Client Bridge/ Access Point
Frequency		802.11b/g/n	802.11b/g/n	802.11b/g/n
Speed		150 Mbps	150 Mbps	300 Mbps
LAN		10/100 x 2	10/100 x 2	10/100 x 2
Chipset		Atheros AR7240+9280	Atheros AR7240+9285	Atheros AR7240+9283
Encryption		WPA2 WPA WEP	WPA2 WPA WEP	WPA2 WPA WEP
Mx. Tx power		26dBm	27dBm	29dBm
RF output (mW)		400mW	500mW	800mW
Antenna	Internal	8dBi Panel	10dBi Panel	10dBi Panel
	External	NA	NA	NA
Mode	Access Point	•	•	•
	Client Bridge	•	•	•
	WDS AP	•	•	•
	WDS STA	•	•	•
	WDS bridge	•	•	•
	Repeater			
Transparent Bridging			•	•
Multiple SSID's		•	•	•
WMM QoS			•	•
Management	SNMP	•	•	•
	Controller	•	•	•
	GUI	•	•	•
Signal Strength LED		•	•	•
Weather Proof		•	•	•
Ethernet Surge Arrestor				

ENS200 - Technical Specifications

HARDWARE SPECIFICATIONS

Standard	IEEE 802.11 b/g/n
Memory	32 MB
Flash	8 MB
Physical Interface	2 x RJ-45 port for 10/100 Ethernet Reset Button in PoE Injector (EPE1212)
Power Requirements	Active Ethernet (Power over Ethernet) Proprietary PoE design Power Adapter 24V/0.6A
MCU	AR7240
RF	AR9285
Built-in Antenna	2.4GHz 8dBi gain Beam width: Horizontal : 70°, Vertical : 21°

RF SPECIFICATIONS

Frequency Band	802.11b/g/n 2.412 to 2.472 GHz
Data rate	Up to 150 Mbps

	802.11n	802.11g	802.11b
Receive Sensitivity (Typical) (2.4GHz)	-95/-92/-87/-85dBm @ MCS0~MCS3 -80/-78 @ MCS4/MCS5 -78/-73dBm @ MCS6/MCS7	-96/-92/-89/-85/-82dBm @ 6/9/12/18/24 Mbps -80dBm @ 36Mbps -75dBm @ 54Mbs	-95/-93dBm @ 1/2Mbps -92/-89dBm @ 5.5/11Mbps

	802.11n (2.4GHz) (± 2dBm)	802.11g(± 2dBm)	
Available transmit power	26dBm @ MCS0~3 25/24dBm @ MCS4/MCS5 22/21dBm @ MCS6/MCS7	26dBm @ 6/9/12/18/24Mbps 25dBm @ 36Mbps 23dBm @ 48Mbps 22dBm @ 54Mbps	

SOFTWARE SPECIFICATIONS

Operation Mode	Client Bridge / Client Router / WDS Bridge / WDS Station/ Access Point
Wireless	- WiFi Scheduling - Signal Strength Display - RSSI Indicator - BSSID/Preferred SSID - Client Bridge / Client Router / WDS Bridge / WDS Station
Security	- WEP Encryption-64/128/152 bit - WPA/WPA2 Personal (WPA-PSK using TKIP or AES) for CR/CB mode only - WPA/WPA2 Enterprise (WPA-EAP using TKIP) for CR/CB mode only - Emergency Recovery Page
Management	EZ Controller management software
Administrator Setting	Administrator password can be changed
QoS	WMM, Traffic Shaping
Reset Setting	Reset to factory default and reboot
MIB	MIB I , MIB II and Private MIB
Auto Reboot	Automatically reboot/restart at scheduled time
Display Time	Show NTP, Manual setting for Time server and Synchronize with PC
SNMP	V1 , V2C, V3
Backup	Save all settings via Web interface

Features and specifications subject to change without notice. Wireless performance may vary based on environmental factors, construction materials and layout, and client device(s).
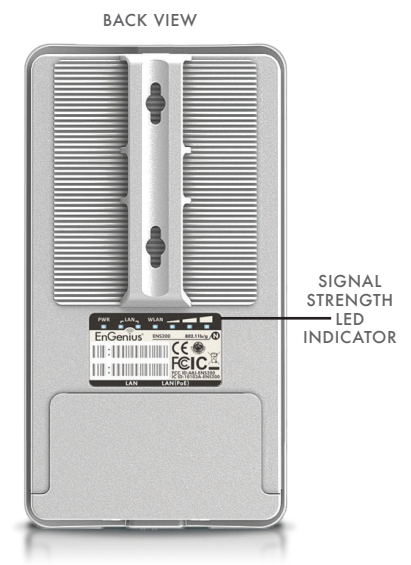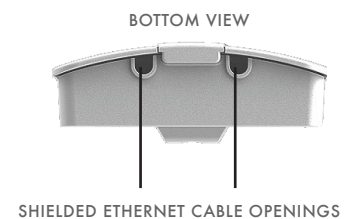
ENVIRONMENTAL & MECHANICAL

Temperature Range Operating Storage	-4°F~158°F -22°F~176°F
Humidity (non-condensing)	0% ~ 90% typical
Waterproof	IP65

DEVICE DIMENSIONS & WEIGHTS

ENS200 Device		
	Weight	0.5 lbs.
	Width	3.9"
	Length	7.3"
	Height	1.14"

Packaging		
	Weight	1.0 lbs.
	Width	4.375"
	Length	7.3"
	Height	3.7"

PACKAGE CONTENTS

ENS200 Outdoor Long Range Wireless-N Access Point
PoE Injector with Power Adapter
CD with User's Manual
Mast mount strap
Wall mount screw set

BOTTOM VIEW

SHIELDED ETHERNET CABLE OPENINGS

BACK VIEW

SIGNAL STRENGTH LED INDICATOR