ENH200

Business Class
Long Range, Wireless-N
Outdoor Client Bridge/Access Point
with Dual Antenna Polarity

Key Differentiators

HIGH-POWER LONG RANGE COVERAGE

Maximum 500mW power output ensures robust signal, helping overcome long distance barriers

Provides superior Wi-Fi coverage compared to other brands

THREE TIMES AS FAST AS WIRELESS G DEVICE

Maximum wireless connection rate up to 150 Mbps

Backward compatible to wireless b, g

INTEGRATED DUAL POLARITY ANTENNA DESIGN

Selectable vertical or horizontal antenna polarity to avoid interference and maximize performance

DESIGNED FOR OUTDOOR DEPLOYMENT

IP55 waterproof housing to protect against rain, moisture

Cable accessory kit prevents rain and dew from getting into the device from cable connection

EASY TO DEPLOY

User friendly GUI configuration interface

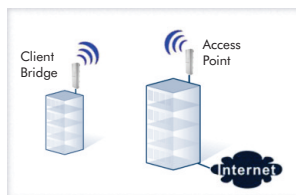Signal strength LED indicators

Installation kit included

Ideal For:

OUTDOOR WIFI
OUTDOOR CPE

OUTDOOR WIRELESS
IP SURVEILLANCE
CAMERA

OUTDOOR WIRELESS
SIGNAGE

POINT-TO-POINT
WIRELESS LINK

EnGenius®

ENH200 – Technical Specifications

Specifications may change without notice.

HARDWARE SPECIFICATIONS

MCU/RF	Atheros AR7240+9285
Memory	32MB SDRAM
Flash	8MB
Physical Interface	10/100 Fast Ethernet port x 2 Reset button x 1
LED Indicators	Power/ Status • LAN1/LAN2 (10/100Mbps) • WLAN (Wireless is up) 3 x Link Quality (Client Bridge mode) Green: Excellent Quality Yellow: Good Quality Red: Poor Quality
Power Requirements	Active Ethernet (Power over Ethernet) • Proprietary PoE design Power Adapter 24V / 1A
Regulation Certifications	FCC, CE, IC

RF SPECIFICATIONS

Wireless standard	IEEE802.11 b/g/n
Frequency Band	2.412 ~ 2.472 GHz (b/g/n)
Modulation Technology	IEEE 802.11b: DBQSK, DQPSK, CCK IEEE 802.11g: BQSK, QPSK, 16-QAM, 64-QAM IEEE 802.11n: BQSK, QPSK, 16-QAM, 64-QAM
Operating Channels	11 channels

Receiver Sensitivity (Typical)	802.11b(2.412~2.472 GHz)	802.11g(2.412~2.472 GHz)	802.11n(2.412~2.472 GHz)
	-97 dBm @ 1Mbps	-96 dBm @ 6Mbps	-95 dBm @ MCS0/MCS8
	-95 dBm @ 2Mbps	-93 dBm @ 9Mbps	-92 dBm @ MCS1/MCS9
	-92 dBm @ 5.5Mbps	-89 dBm @ 12Mbps	-87 dBm @ MCS2/MCS10
	-89 dBm @ 11Mbps	-85 dBm @ 18Mbps	-85 dBm @ MCS3/MCS11
		-81 dBm @ 24Mbps	-80 dBm @ MCS4/MCS12
		-79 dBm @ 36Mbps	-79 dBm @ MCS5/MCS13
		-76 dBm @ 48Mbps	-74 dBm @ MCS6/MCS14
		-75 dBm @ 54Mbps	-73 dBm @ MCS7/MCS15

Available transmit power (Average power)	802.11b(2.412~2.472 GHz)	802.11g(2.412~2.472 GHz)	802.11n(2.412~2.472 GHz)
	27 dBm @ 1Mbps	26 dBm @ 6Mbps	26 dBm @ MCS0/MCS8
	27 dBm @ 2Mbps	26 dBm @ 9Mbps	26 dBm @ MCS1/MCS9
	27 dBm @ 5.5Mbps	26 dBm @ 12Mbps	26 dBm @ MCS2/MCS10
	27 dBm @ 11Mbps	26 dBm @ 18Mbps	26 dBm @ MCS3/MCS11
		25 dBm @ 24Mbps	24 dBm @ MCS4/MCS12
		24 dBm @ 36Mbps	23 dBm @ MCS5/MCS13
		23 dBm @ 48Mbps	22 dBm @ MCS6/MCS14
		22 dBm @ 54Mbps	21 dBm @ MCS7/MCS15

Internal Antenna x2	Antenna Specification	
	Gain	10dBi
	Radiation	Directional
	Frequency Band Range	2.4 - 2.5GHz
	Vertical Beamwidth	73°
	Horizontal Beamwidth	37°
	Antenna Polarity: Dual-Polarized; Vertical/Horinzontal	

SOFTWARE FEATURES

General

Topology	Infrastructure
Protocol / Standard	IEEE802.3, 802.3U, 802.11 b/g/n (2.4 GHz)
Operation Mode	Client Bridge/Access Point/WDS bridge/Client Router
LAN	DHCP Server • DHCP Client
VPN	VPN - pass through in client router mode
Networking	PPPoE, PPTP in client router mode Bandwidth selection (selectable 5MHz/10MHz/20MHz/40MHz)
Security	WEP Encryption-64/128/152 bit WPA/WPA2 Personal (WPA-PSK using TKIP or AES) WPA/WPA2 Enterprise (WPA-EAP using TKIP) 802.1x Authenticator Hide SSID in beacons MAC address filtering, up to 50 field Wireless STA (Client) connected list
QoS	WMM (Wi-Fi Multimedia)

Management

Firmware Upgrade	Upgrade firmware via web-browser • Keep latest setting when f/w update
Reset Setting	Reset to factory default & Backup current configuration, Ping & Trace Route
MIB	MIB: MIB I, MIB II(RFC1213), Private MIB
SNMP	SNMP: SNMP v1, v2c

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: -4°F to 158°F Storage: -22°F to 176°F
Humidity (non-condensing)	0%~90% typical
Dimensions	Length: 10.24" (260mm) x Width: 3.31" (84mm) x Height: 2.17" (55mm)
Weight	0.9 lb

Signal Indicators

Main LAN Port
(connect to PoE injector)

Reset button

Secondary LAN port

Internal Antenna Pattern – Vertical
2400 MHz   2450 MHz   2500 MHz

Internal Antenna Pattern – Horizontal
2400 MHz   2450 MHz   2500 MHz
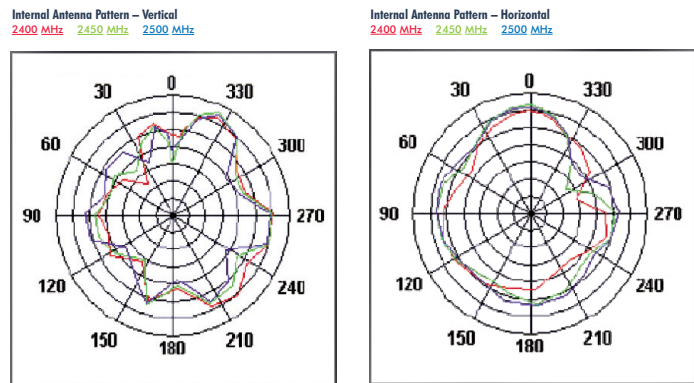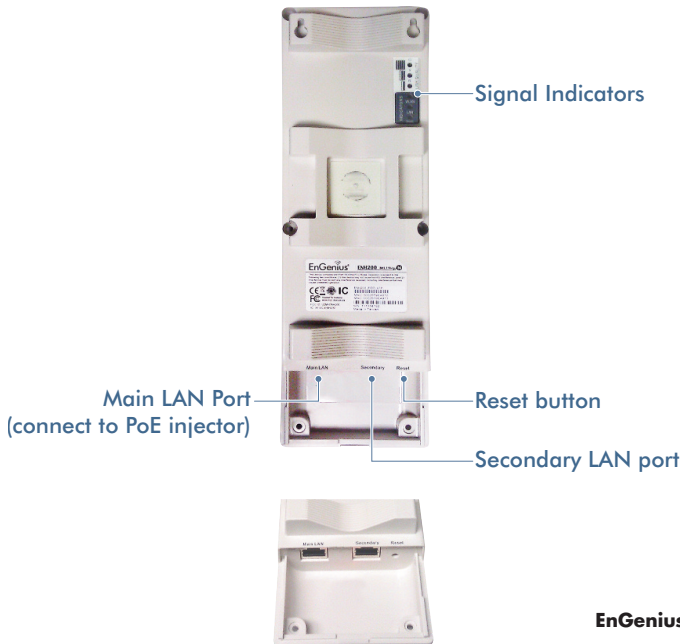
EnGenius Technologies 1580 Scenic Avenue • Costa Mesa, CA 92626, USA
888.735.7888

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