ENH500

Business-Class, Long Range 5GHz 802.11n Bridge / Wireless Access Point



Key Differentiators

HIGH-POWER OUTPUT ENABLES LONG RANGE WIRELESS COVERAGE

Maximum 600mW Power output provides long range wireless signal coverage which provides superior wireless coverage over competitors

5GHZ FOR MINIMAL INTERFERENCE

A dedicated 5GHz 80211.n Wireless Bridge / AP to avoid interference from multiple 2.4GHz wireless signals

DESIGNED FOR OUTDOOR DEPLOYMENTS

IP55 waterproof housing and cable accessory kit protects against moisture, rain and dew

UP TO 300Mbps

Compliant with 802.11n standard for connection rate up to 300Mbps - 6x the speed of similar 802.11g devices and backward compatible to 11a

INTERNAL HIGH-GAIN 13dBi DIRECTIONAL ANTENNA

MULTIPLE SSIDS WITH VLAN BINDING

Permits different levels of network access when activating multiple SSID broadcasts. Individual SSIDs can be linked to existing VLANs to control user or department access

EASY TO DEPLOY

Includes signal strength LED indicators, pole mount and PoE injector kit

Ideal For:



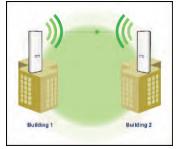
OUTDOOR WIFI



OUTDOOR WIRELESS
IP SURVEILLANCE CAMERA



OUTDOOR WIRELESS SIGNAGE



POINT-TO-POINT COMMUNICATION



ENH500 — Technical Specifications

Specifications may change without notice.

HARDWARE SPECIFICATIONS

MCU/RF	Atheros AR7240+Atheros AR9280
Memory	8 MB/32 MB (memory/Flash)
Physical Interface	10/100 Fast Ethernet port x 2 Reset button x 1
LED Indicators	Power/Status LAN (10/100Mbps) WLAN (Wireless connection)
Power Requirement	Active Ethernet (Power over Ethernet) Proprietary PoE design Power Adapter 24VAC / 0.6A

RE SPECIFICATIONS

Receiver Sensitivity S. 18 GHz	KF SPECIFICATIONS				
Receiver Sensitivity IEEE 802.11a: BQSK, QPSK, 16-QAM, 64-QAM IEEE 802.11n: BQSK, QPSK, 16-QAM, 64-QAM IEEE 802.11a: BS25GHz) 28 dBm @ MCS3/MCS8 28 dBm @ MCS3/MCS10 28 dBm @ MCS3/MCS10 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS14 23 dBm @ MCS3/MCS14 23 dBm @ MCS3/MCS15 IEEE 802.11a: BS25GHz) IEEE 802.11a: BS25GHz] IEEE 802.11a: B	Wireless standard	IEEE802.11 a/n			
Transmit Power 24 channels 802.11n(5.18 ~ 5.825GHz) 28 dBm @ MCS3/MCS8 28 dBm @ MCS9/MCS9 28 dBm @ MCS9/MCS10 26 dBm @ MCS9/MCS10 26 dBm @ MCS3/MCS10 26 dBm @ MCS3/MCS11 28 dBm @ 24Mbps 25 dBm @ MCS3/MCS11 28 dBm @ 48Mbps 24 dBm @ MCS3/MCS12 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS13 24 dBm @ MCS3/MCS14 23 dBm @ MCS3/MCS15 802.11n(5.18 ~ 5.825GHz) 995 dBm @ 6Mbps -94 dBm @ MCS3/MCS15 -95 dBm @ 6Mbps -94 dBm @ MCS3/MCS8 -92 dBm @ MCS3/MCS9 -88 dBm @ MCS3/MCS9 -88 dBm @ MCS3/MCS1 -85 dBm @ 18Mbps -85 dBm @ MCS3/MCS11 -85 dBm @ 18Mbps -85 dBm @ MCS3/MCS11 -85 dBm @ 4Mbps -79 dBm @ MCS3/MCS12 -79 dBm @ 36Mbps -79 dBm @ MCS3/MCS13 -76 dBm @ 48Mbps -74 dBm @ MCS6/MCS14 -75 dBm @ 48Mbps -74 dBm @ MCS6/MCS14 -75 dBm @ 48Mbps -73 dBm @ MCS6/MCS15 -75 dBm @	Frequency	5.18GHz ~ 5.825GHz (α/n)			
802.11a (5.18 ~ 5.825GHz) 802.11n(5.18 ~ 5.825GHz) 28 dBm @ 6Mbps 28 dBm @ MCSJ/MCS9 28 dBm @ 9Mbps 28 dBm @ MCSJ/MCS10 28 dBm @ 12Mbps 26 dBm @ MCSJ/MCS10 28 dBm @ 12Mbps 26 dBm @ MCSJ/MCS11 28 dBm @ 18Mbps 25 dBm @ MCSJ/MCS11 28 dBm @ 24Mbps 25 dBm @ MCSJ/MCS12 24 dBm @ 48Mbps 24 dBm @ MCSJ/MCS13 24 dBm @ 48Mbps 24 dBm @ MCSJ/MCS13 24 dBm @ 48Mbps 24 dBm @ MCSJ/MCS13 25 dBm @ MCSJ/MCS13 26 dBm @ 54Mbps 24 dBm @ MCSJ/MCS13 27 dBm @ 6Mbps 27 dBm @ MCSJ/MCS15 802.11a (5.18 ~ 5.825GHz) 802.11n(5.18 ~ 5.825GHz) -95 dBm @ 6Mbps -94 dBm @ MCSJ/MCS15 -96 dBm @ 6Mbps -94 dBm @ MCSJ/MCS10 -86 dBm @ 12Mbps -88 dBm @ MCSJ/MCS11 -86 dBm @ 18Mbps -85 dBm @ MCSJ/MCS11 -87 dBm @ 36Mbps -79 dBm @ MCSJ/MCS12 -79 dBm @ 36Mbps -79 dBm @ MCSJ/MCS13 -76 dBm @ 48Mbps -74 dBm @ MCSJ/MCS15 -75 dBm @ 54Mbps -73 dBm @ MCSJ/MCS15	Modulation Technologies				
28 dBm @ 6Mbps 28 dBm @ 9Mbps 28 dBm @ 9Mbps 28 dBm @ 12Mbps 28 dBm @ MCS1/MCS9 28 dBm @ 12Mbps 26 dBm @ MCS2/MCS10 28 dBm @ 18Mbps 26 dBm @ MCS2/MCS11 28 dBm @ 24Mbps 26 dBm @ MCS3/MCS11 27 dBm @ 48Mbps 24 dBm @ 4MS4/MCS12 24 dBm @ 4MS4/MCS12 23 dBm @ 54Mbps 24 dBm @ MCS6/MCS13 24 dBm @ MCS6/MCS13 24 dBm @ MCS6/MCS14 23 dBm @ MCS6/MCS14 23 dBm @ MCS7/MCS15 802.11a (5.18 ~ 5.825GHz) -95 dBm @ 6Mbps -94 dBm @ MCS7/MCS15 802.11a (5.18 ~ 5.825GHz) -95 dBm @ 6Mbps -94 dBm @ MCS7/MCS15 Receiver Sensitivity Receiver Sensitivity -86 dBm @ 12Mbps -85 dBm @ MCS7/MCS11 -86 dBm @ 36Mbps -95 dBm @ MCS7/MCS11 -79 dBm @ 36Mbps -96 dBm @ MCS7/MCS11 -79 dBm @ 36Mbps -79 dBm @ MCS7/MCS12 -79 dBm @ 36Mbps -79 dBm @ MCS6/MCS14 -75 dBm @ 48Mbps -75 dBm @ MCS6/MCS14 -75 dBm @ 54Mbps -73 dBm @ MCS6/MCS15	Operating Channels	24 channels			
-95 dBm @ 6Mbps -94 dBm @ MCS0/MCS8 -92 dBm @ 9Mbps -92 dBm @ 9Mbps -92 dBm @ MCS1/MCS9 -88 dBm @ 12Mbps -88 dBm @ MCS2/MCS10 -85 dBm @ 18Mbps -85 dBm @ MCS3/MCS11 -81 dBm @ 24Mbps -80 dBm @ MCS4/MCS12 -79 dBm @ 36Mbps -79 dBm @ MCS4/MCS13 -76 dBm @ 48Mbps -74 dBm @ MCS6/MCS14 -75 dBm @ 54Mbps -73 dBm @ MCS6/MCS14 -75 dBm @ 54Mbps -73 dBm @ MCS7/MCS15	Transmit Power	28 dBm @ 6Mbps 28 dBm @ 9Mbps 28 dBm @ 12Mbps 28 dBm @ 18Mbps 28 dBm @ 24Mbps 26 dBm @ 36Mbps 24 dBm @ 48Mbps	28 dBm @ MCS0/MCS8 28 dBm @ MCS1/MCS9 26 dBm @ MCS2/MCS10 26 dBm @ MCS3/MCS11 25 dBm @ MCS3/MCS11 24 dBm @ MCS5/MCS13 24 dBm @ MCS6/MCS13		
Antenna Built-in 13dBi directional antenna ; Dual-polarity.	Receiver Sensitivity	-95 dBm @ 6Mbps -92 dBm @ 9Mbps -89 dBm @ 12Mbps -85 dBm @ 18Mbps -81 dBm @ 24Mbps -79 dBm @ 36Mbps -76 dBm @ 48Mbps	-94 dBm @ MCS0/MCS8 -92 dBm @ MCS1/MCS9 -88 dBm @ MCS2/MCS10 -85 dBm @ MCS3/MCS11 -80 dBm @ MCS4/MCS12 -79 dBm @ MCS5/MCS13 -74 dBm @ MCS6/MCS14		
	Antenna	Built-in 13dBi directional antenno	; Dual-polarity.		

CONTENT OF PACKAGE - WIRELESS LONG RANGE 11N CB/AP - ENH500

- PoE Injector (EPE-24R)
- QIG
- Power Adaptor
 CD with User's Manual • Mounting kit • Screw set

SOFTWARE SPECIFICATIONS

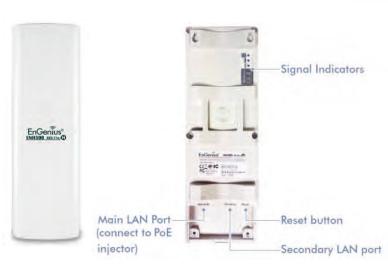
Topology	Infrastructure, ad-hoc
Protocol	IEEE802.3, 802.3u, 802.11 a/n (5 GHz)
Operation Mode	Access Point/Client Bridge/WDS bridge/WDS AP/WDS ST/Client Router
LAN	DHCP server/client
VPN	VPN Pass-through
Networking	PPPoE, PPTP, DHCP client, spanning tree, Channel bandwidth
Security	WEP encryption – 64/128/152 bit WPA_WPA2 Personal (WPA_PSK uses TKIP or AES) WPA_WPA2 Enterprise (WPA_EAP usesTKIP) 802. 1x Authenticator Hide SSID in beacons MAC address filtering, up to 50 fields Wireless STA (Client) connected list

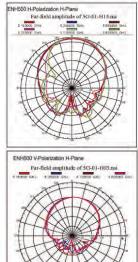
MANAGEMENT

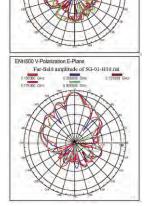
Configuration	Web-based configuration
Firmware Upgrade	Firmware upgrade via browser
Administrator Setting	Administrator password change
Reset Setting	Reboot; Reboot to factory default
SNMP	V1, V2c
MIB	MIB I, MIB II(RFC1213), Private MIB
Backup & Restore	Configuration backup, configuration restore
Diagnosis	Ping & Trace Route,
Time Setting	Manual; Auto: NTP

ENVIRONMENT & PHYSICAL

Temperature Range	Operation: $-4^{\circ}F \sim 158^{\circ}F (-20^{\circ}C \sim 70^{\circ}C)$ Storage: $-22^{\circ}F \sim 176^{\circ}F (-30^{\circ}C \sim 80^{\circ}C)$
Humidity (non-condensing)	0%~90% typical
Dimensions	Length: 10.24" (260mm) Width: 3.31"(84mm) Height: 2.17"(55mm)
Weight	0.9 lb







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