

THE LEADER IN LONG RANGE BUSINESS CLASS WIRELESS DATA

EnGenius®

ENH700EXT

Long-Range Dual Radio 802.11n
Wireless Outdoor Access Point



Key Differentiators

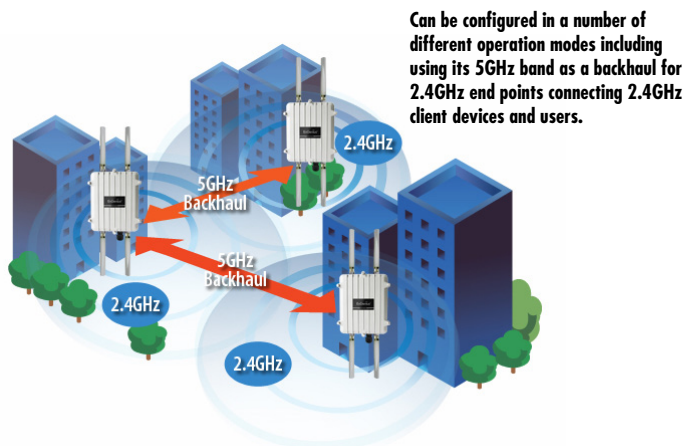
- Complies with IEEE802.11n standard with up to 300Mbps data rate on both the 2.4GHz and 5GHz frequency bands
- Dual-Band (radio) design allows for independent configuration and operational modes on each RF band
- Up to 500mW high transmit (TX) power for longer range signal coverage
- Supports transparent bridging in WDS (Wireless Distribution System) mode
- Gigabit Ethernet port provides high-speed connectivity to an existing wired network
- IP68-rated ruggedized enclosure designed for extremely harsh outdoor environments
- Integrated dual-polarity internal MIMO (Multiple-In/Multiple Out) antenna array
- Built-in surge protection on the Gigabit Ethernet connector and its four N-type antenna connectors
- Includes EZ Controller Access Point Management Software

Key Features / Benefits:

- Expands existing company networks and supports much more user/device capacity than legacy single-band outdoor networking solutions ideal for companies that are provisioning more mobile Wi-Fi devices within the boundaries of their network like iPads and other tablet devices
- Designed to support demanding traffic for video streaming and large file transfers
- Provides more operational versatility than single-band outdoor APs
- Additional 5GHz band gives users the option to avoid interference in heavily-congested 2.4GHz environments
- Up to 500mW transmit power expands the overall coverage area of the network enabling users to roam and work farther from their offices as necessary or required

ENH700EXT is an EnGenius X-treme SMB™ Long-Range, Dual Radio (2.4 and 5GHz) 802.11n Wireless Outdoor Access Point / Client Bridge in a rugged IP68-rated enclosure. With up to 300Mbps wireless data rate on each radio, it provides a much more versatile and expansive solution for outdoor Wi-Fi connectivity for laptop computers, tablet PCs and smartphones or for connecting other buildings to an established company network.

The ENH700EXT can be configured in a number of different modes giving VARs, system integrators, IT managers, and installers the ability to configure the device for discrete functionality based on their unique network topology or scalable needs. With two onboard radios, each can be configured into different operation modes independently, thus the ENH700EXT adds an additional layer of flexibility that single-band Access Points do not offer. This includes the ability to establish a backbone (backhaul) network using the 5GHz radio between separate buildings in a campus environment while still providing Wi-Fi connectivity to an establish Internet account or to a company's networked resources (databases, storage, printers) for employees, guests or students using their laptops, tablets or smartphones in outdoor venues on the 2.4GHz band.



In Access Point mode, the ENH700EXT expands the overall bandwidth of an outdoor Wi-Fi solution and users who wish to stream video or transfer large files now have the option to associate to any one of the AP's up to eight configurable 5GHz SSIDs (Service Set Identifiers) – particularly useful in areas where there may be a preponderance of competing and overlapping 2.4GHz signals from Access Points and devices not affiliated with the company's network.

ENH700EXT - Datasheet 09/19/2012 Rev02

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ENH700EXT - Technical Specifications

HARDWARE SPECIFICATIONS

Standard	IEEE 802.11 a/b/g/n
Memory	64 MB
Flash	8 MB
Physical Interface	1 x RJ-45 for 10/100/1000 Gigabit Ethernet Reset Button in PoE Injector
Power requirements	Active Ethernet (Power over Ethernet) Proprietary PoE design Power Adapter 48V / 0.8A

RF SPECIFICATIONS

Frequency Band	802.11a 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz 802.11b/g 2.400 to 2.484 GHz		
Data rate	300 Mbps per radio		
Receive Sensitivity (Typical)	802.11n (5GHz)	802.11n (5GHz)	802.11a
	-94dBm @ MCS0 -76dBm @ MCS7 -91dBm @ MCS8 -73dBm @ MCS15	-95dBm @ MCS0 -77dBm @ MCS7 -91dBm @ MCS8 -75dBm @ MCS15	-95dBm @ 6Mbps -80dBm @ 54Mbps
Available transmit power (The Max. Power may be different depending on local regulations)	802.11g	802.11b	
	-95dBm @ 6Mbps -80dBm @ 54Mbps	-95dBm @ 1Mbps -91dBm @ 11Mbps	
Antenna	802.11n (5GHz)	802.11n (2.4GHz)	802.11a
	27dBm @ MCS0~2/ MCS8~10 26dBm @ MCS3/MCS11 25dBm @ MCS4/MCS12 23dBm @ MCS5/MCS13 22dBm @ MCS6/MCS14 21dBm @ MCS7/MCS15	27dBm @ MCS0~2/ MCS8~10 27dBm @ MCS3/MCS11 26dBm @ MCS4/MCS12 25dBm @ MCS5/MCS13 24dBm @ MCS6/MCS14 23dBm @ MCS7/MCS15	26dBm @ 6~24Mbps 25dBm @ 36Mbps 23dBm @ 48Mbps 21dBm @ 54Mbps
	802.11g	802.11b	
	27dBm @ 6~24Mbps 26dBm @ 36Mbps 25dBm @ 48Mbps 24dBm @ 54Mbps	7dBm @ 1~11Mbps	

NETWORKING

PPPoE	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
PPTP	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks

SECURITY

Wireless 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, L2 isolation(AP mode), Wireless STA (Client) connected list, Hidden SSID broadcast to prevent illegal connection
IP 68 Protection	It is designed to deliver best reliability under harsh outdoor environment. There is not any limitation on installing and setup.

MANAGEMENT

Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
MIB	MIB I, MIB II(RFC1213) and private MIB
SNMP	V1, V2c

ENVIRONMENT & MECHANICAL

Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%~90 % typical
Water/Dust proof	IP68
Dimensions	Weight: 4 lbs. Width: 7.75" Length: 9.5" Height: 2.0"
Weight	4 lb
Content of Package	ENH700EXT Dual-Radio Access Point x 1 PoE Injector (EPE-48GR) x 1 Power Adapter x 1 2.4GHz 5dBi Omni directional N-type antenna x 2 5GHz 5dBi Omni directional N-type antenna x 2 CD with User's Manual x 1 Quick Installation Guide x 1 Mast mount/wall mount set x 1 Grounding cable x 1

