EnGenius®
Get Connected | Get EnGenius

ENH700EXT

802.11N Dual Radio Concurrent AP

- 2.4 GHz/5GHz
- 600Mbps
- 802.11a/b/g/n
- Flexible Application



PRODUCT OVERVIEW

ENH700EXT equips with two powerful independent RF interfaces which support 802.11a/n(2T2R) and 802.11b/g/n(2T2R). With certified IP-68 protection, it is designed to deliver high reliability under harsh outdoor environment.

Built-in advanced multi-functions provide flexibility in constructing scalable WiFi networks for all possible applications. With two individual interfaces, each can be configured into 3 different modes with maximum of 5 combinations. ENH700EXT offers bandwidth up to 300Mbps per radio to accommodate heavy traffic services such as multimedia streaming. Establishing backbone network using 802.11a/n ensures stability and reduces interference while 802.11b/g/n offers great compatibility to all wireless clients.

ENH700EXT provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce maximum security. Furthermore, friendly security management user interface reduces configuration complexity. ENH700EXT is a true carrier-grade product which is guaranteed to fulfill any business proposals.

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

EnGenius®
Get Connected | Get EnGenius

Datasheet
ENH700EXT

FEATURES

Wireless

- ***Dual Radio*** *Two radio (a/n, radio1 and b/g/n, radio2) for independent application*
- ***High Data Rate*** *High speed physical transmitting rate 300Mbps per radio to support large payload*
- ***Multifunction Operation Modes*** *Dual AP / AP+CB / CB+AP / AP+WDS / WDS+AP*
- ***Signal Strength Display*** *dBm to show the signal condition for more convenient installation*
- ***Channel Setting*** *Enables Manual, Auto/Best Channel Selection and Auto Channel Scan Interval*
- ***Distance Control Bar & ACK timeout Setting*** *Allows user to adjust wireless package ACK timeout by M*
- ***QoS(WMM)*** *Enhance performance and density (AP mode)*
- ***BSSID*** *Basic Service Set ID. Profile item can be arranged for preference. User allowed to move profile UP/Down*
- ***Multiple SSID*** *8BSSID supported for each radio. Primary(1st) BSSID for normal setting follow this router's main default setting for security setting. Each SSID can set itself wireless or WAN access setting.*

Security

- ***Rugged 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*
- ***Emergency Recovery Page*** *Provide a self-aid page for users in case of firmware upgrade failure*
-

Management

- ***EZ Controller*** *NMS (Network Management Software)*
- ***Firmware Upgrade*** *Upgrading firmware via web browser, setting are reserved after upgrade*
- ***Restore & Backup Setting*** *Reset to factory default. User can export all settings into a file via WEB*
- ***MIB*** *MIB I, MIB II(RFC1213) and private MIB*
- ***VLAN Management*** *Active: Disabled/Enabled*
- ***CLI/Super Mode Support*** *Command Line Interface (accessible only with special account)*
- ***RADIUS Accounting*** *RADIUS (Remote Authentication Dial In User Service), to account for usage of those services*
- ***Auto Reboot*** *Automatically reboot/restart at scheduled time*
- ***Display Time*** *Show NTP, Manual setting for Time server and Synchronize with PC*
- ***SNMP*** *V1, V2c*
-

Environment

- ***ESD Protection*** *20KV, outstand the standard 8KV*
- ***IP 68 Protection*** *it is designed to deliver best reliability under harsh outdoor environment. There is not any limitation on installing and setup*

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

EnGenius®
Get Connected | Get EnGenius

Datasheet
ENH700EXT

TECHNICAL SPECIFICATIONS			
HARDWARE SPECIFICATIONS			
Standard	IEEE 802.11 a/b/g/n		
MCU	Atheros AR7161		
Memory/ Flash	64MB/8MB		
Physical Interface	1 x RJ-45 for 10/100/1000 Gigabit Ethernet		
	Reset Button in PoE Injector		
Power Requirement	- Active Ethernet (Power over Ethernet) - Proprietary PoE design - Power Adapter 48V / 0.8A		
RF SPECIFICATIONS			
Frequency Band	**802.11an** 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz **802.11b/gn** U.S., Europe and Japan product covering 2.400 to 2.484 GHz, programmable for different country regulations		
Data rate	300 Mbps per radio		
Receive Sensitivity (Typical)	**802.11n (5GHz)** -89dBm @ MCS0 -70dBm @ MCS7 -89dBm @ MCS8 -70dBm @ MCS15	**802.11n (2.4GHz)** -97dBm @ MCS0 -78dBm @ MCS7 -96dBm @ MCS8 -76dBm @ MCS15	
	802.11a -90dBm @ 6Mbps -72dBm @ 54Mbps	**802.11g** -96dBm @ 6Mbps -82dBm @ 54Mbps	**802.11b** -99dBm @ 1Mbps -93dBm @ 11Mbps
Available transmit power (The Max. Power may be different depending on local regulations)	**802.11n (5GHz) (± 2dBm)** 26dBm @ MCS0~2/MCS8~10 25dBm @ MCS3/MCS11 24dBm @ MCS4/MCS12 23dBm @ MCS5/MCS13 23dBm @ MCS6/MCS14 21dBm @ MCS7/MCS15	**802.11n (2.4GHz) (± 2dBm)** 26dBm @ MCS0~2/MCS8~10 26dBm @ MCS3/MCS11 25dBm @ MCS4/MCS12 24dBm @ MCS5/MCS13 22dBm @ MCS6/MCS14 21dBm @ MCS7/MCS15	
	802.11a(± 2dBm) 26dBm @ 6~24Mbps 25dBm @ 36Mbps 24dBm @ 48Mbps 23dBm @ 54Mbps	**802.11g(± 2dBm)** 26dBm @ 6~24Mbps 25dBm @ 36Mbps 24dBm @ 48Mbps 23dBm @ 54Mbps	**802.11b(± 2dBm)** 26dBm @1~11Mbps
Antenna	4 x N-type connector		
SOFTWARE SPECIFICATIONS			

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

EnGenius®
Get Connected | Get EnGenius

Datasheet
ENH700EXT

Operation Mode	Access Point / Client Bridge / WDS for each radio
Wireless	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) Multiple SSID (8 SSID) VLAN Function WDS AP / WDS Bridge BSSID
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
MANAGEMENT	
EZ Controller	NMS (Network Management Software)
Configuration	Web-based configuration (HTTP)/Telnet
Firmware Upgrade	Upgrade firmware via web browser Fix latest setting parameter when firmware upgrading
Administrator Setting	Administrator password can be changed
System monitoring	Status in hand , useful statistic and Event log
Reset Setting	Reset to factory default and reboot
MIB	MIB I , MIB II and Private MIB
RADIUS Accounting	RADIUS (Remote Authentication Dial In User Service), to account for usage of those services
CLI/Super Mode Support	Command Line Interface (accessible only with special account)
Auto Reboot	Automatically reboot/restart at scheduled time
Display Time	Show NTP, Manual setting for Time server and Synchronize with PC
VLAN Management	Active: Disabled/Enabled
SNMP	V1 , V2c
Backup	Save all setting and condition to a file by web

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

EnGenius®
Get Connected | Get EnGenius

Datasheet
ENH700EXT

ENVIRONMENT AND MECHANICAL	
Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0% ~ 90% typical
Waterproof	IP68
Dimensions	245mm (L) x 200mm (W) x 75mm (H)
Weight	1450g

PACKAGE CONTENT
► ENH700EXT
► PoE Injector with Power Adapter
► CD with User's Manual
► QIG
► Wall Mounting Kit
► 1.8m Grounding Cable
► 2 * 2.4GHz N-Type Omni Antenna
► 2 * 5GHz N-Type Omni Antenna

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice