ENH700EXT
802.11N Dual Radio Concurrent AP

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

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.

Package Contents

1 x Dual Radio Concurrent AP (ENH700EXT)
1 x PoE injector with Power Adapter
1 x Wall Mounting kit
1 x 1.8m Grounding Cable
1 x CD with User's Manual
1 x QIG
2 x 2.4GHz N-type Omni Antenna
2 x 5GHz N-type Omni Antenna

All specifications are subject to change without notice.

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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**   Dual AP / AP+CB / CB+AP / AP+WDS / WDS+AP
- **Signal Strength Display**   0% ~ 100% to show the signal condition for more convenient installation
- **QoS(WMM)**   Enhance performance and density
- **BSSID**   Basic Service Set ID
- **Multiple SSID**   4 BSSID supported.   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.

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
- **VPN Pass Through**

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
- **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

Specification

Hardware Specification	
Standard	IEEE 802.11 a/b/g/n
Memory	64MB
Flash	8MB
Physical Interface	1 x RJ-45 for 10/100/1000 Gigabit Ethernet

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	Reset Button in PoE Injector
Power Requirements	- Active Ethernet (Power over Ethernet)
	- Proprietary PoE design
	- Power Adapter 48V / 0.8A

RF Specification

Frequency Band	**802.11a**
	5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz
	802.11b/g
	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)**		**802.11n (2.4GHz)**	
	-89dBm @ MCS0		-97dBm @ MCS0	
	-70dBm @ MCS7		-78dBm @ MCS7	
	-89dBm @ MCS8		-96dBm @ MCS8	
	-70dBm @ MCS15		-76dBm @ MCS15	
	802.11a	**802.11g**	**802.11b**	
	-90dBm @ 6Mbps	-96dBm @ 6Mbps	-99dBm @ 1Mbps	
	-72dBm @ 54Mbps	-82dBm @ 54Mbps	-93dBm @ 11Mbps	

Available transmit power	**802.11n (5GHz) (± 2dBm)**	**802.11n (2.4GHz) (± 2dBm)**
(The Max. Power may be	26dBm @ MCS0~2/MCS8~10	26dBm @ MCS0~2/MCS8~10
different depending on local	25dBm @ MCS3/MCS11	26dBm @ MCS3/MCS11
regulations)	24dBm @ MCS4/MCS12	25dBm @ MCS4/MCS12
	23dBm @ MCS5/MCS13	24dBm @ MCS5/MCS13
	23dBm @ MCS6/MCS14	22dBm @ MCS6/MCS14
	21dBm @ MCS7/MCS15	21dBm @ MCS7/MCS15

	802.11a(± 2dBm)	**802.11g(± 2dBm)**	**802.11b(± 2dBm)**
	26dBm @ 6~24Mbps	26dBm @ 6~24Mbps	26dBm @1~11Mbps
	25dBm @ 36Mbps	25dBm @ 36Mbps	
	24dBm @ 48Mbps	24dBm @ 48Mbps	
	23dBm @ 54Mbps	23dBm @ 54Mbps	

Antenna	4 x N-type connector

Software Specification

Operation Mode	Access Point / Client Bridge / WDS for each radio
Wireless	Auto Channel Selection (Setting varies by Regular Domains)

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	Distance Control (802.1x Ack timeout)
	Narrow Bandwidth Selection
	Multiple SSID (4 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	
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
SNMP	V1 , V2c
Backup	Save all setting and condition to a file by web
Environment & 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