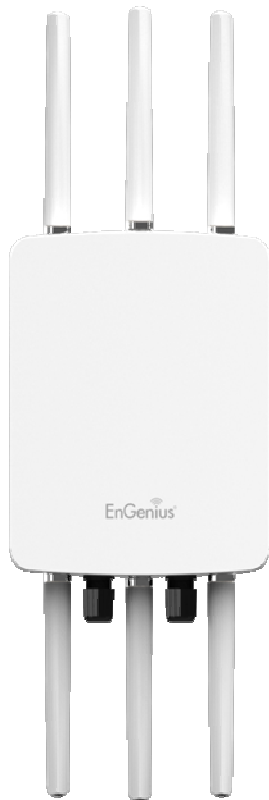


# ENH900 EXT

Wireless 11N Outdoor Dual Band Dual Concurrent  
AP /CB

- 2.4GHz/5GH
- 900Mbps
- 802.11a/b/g/n



## PRODUCT OVERVIEW

**ENH900EXT** equips with two powerful independent RF interfaces which support 802.11a/n (3T3R) and 802.11b/g/n (3T3R). 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 Wi-Fi networks for all possible applications. With two individual interfaces, each can be configured into 3 different modes with maximum of 5 combinations. ENH900EXT offers bandwidth up to 450Mbps 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.

ENH900EXT 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. ENH900EXT is a true carrier-grade product which is guaranteed to fulfill any business proposals.

FEATURES	
<b>HARDWARE FEATURES</b>	
<b>Dual Radio Concurrent</b>	One radio supports 802.11a/n, and another supports 802.11b/g/n
<b>High output power</b>	Transmit high output power programmable for different country selections
<b>High Data Rate</b>	High speed transmitting rate up to 900Mbps with 2 radios, 3T3R 802.11n
<b>Multi-Function</b>	Dual AP, AP+CB, CB+AP, AP+WDS, WDS+AP
<b>Long range transmitting</b>	Transmit power control and distance control (ACK timeout)
<b>SOFTWARE</b>	
<b>Multiple SSID</b>	8 SSID supported. Each SSID can set itself wireless or WAN access settings
<b>VLAN Pass-through</b>	Support VLAN Pass-through
<b>Firmware Upgrade</b>	Upgrading firmware via web browser, setting are reserved after upgrade
<b>Reset &amp; Backup</b>	Reset to factory default. User can export all setting into a file via WEB
<b>Ping &amp; Trace Route</b>	Built-in PING function & Trace Route function in Web GUI
<b>MIB</b>	MIB I, MIB II(RFC1213), Private MIB
<b>SNMP</b>	V1, V2c

SPECIFICATIONS																																											
<b>HARDWARE SPECIFICATIONS</b>																																											
<b>MCU</b>	Atheros QCA9558																																										
<b>RF</b>	Atheros QCA9558 (2.4GHz) + QCA9580 (5GHz)																																										
<b>Memory</b>	256MB																																										
<b>Flash</b>	16MB																																										
<b>Physical Interface</b>	2 x Gigabit Ethernet Port with PoE support--802.3at (Main LAN) + PSE Out (Secondary LAN) (Both Ethernet Ports support Surge Protection to 1.5KV)																																										
<b>Power Requirements</b>	- Active Ethernet (Power over Ethernet) - 802.3at support - Power Adapter 48V / 0.8A																																										
<b>RF SPECIFICATIONS</b>																																											
<b>Available transmit power (ERIP)</b>	19dBm																																										
<b>Frequency Band</b>	802.11a/b/g/n																																										
<b>Data rate</b>	450Mbps(2.4GHz) 450Mbps (5GHz)																																										
<b>Radio Frequency Band</b> (The Max. Power may be different depending on local regulations)	<table border="1"> <thead> <tr> <th>Channel</th> <th>Data Rate</th> <th>Rx Sensitivity (±2dBm)</th> </tr> </thead> <tbody> <tr> <td rowspan="4">802.11b (2.412 ~ 2.472GHz)</td> <td>1Mbps</td> <td>-97</td> </tr> <tr> <td>2Mbps</td> <td>-95</td> </tr> <tr> <td>5.5Mbps</td> <td>-93</td> </tr> <tr> <td>11Mbps</td> <td>-92</td> </tr> <tr> <td rowspan="7">802.11g (2.412 ~ 2.472GHz)</td> <td>6Mbps</td> <td>-94</td> </tr> <tr> <td>9Mbps</td> <td>-94</td> </tr> <tr> <td>12Mbps</td> <td>-90</td> </tr> <tr> <td>18Mbps</td> <td>-85</td> </tr> <tr> <td>24Mbps</td> <td>-82</td> </tr> <tr> <td>36Mbps</td> <td>-80</td> </tr> <tr> <td>48Mbps</td> <td>-77</td> </tr> <tr> <td rowspan="6">802.1n (2.412 ~ 2.472GHz)</td> <td>54Mbps</td> <td>-75</td> </tr> <tr> <td>MCS0 / MCS8</td> <td>-95</td> </tr> <tr> <td>MCS1 / MCS9</td> <td>-93</td> </tr> <tr> <td>MCS2 / MCS10</td> <td>-90</td> </tr> <tr> <td>MCS3 / MCS11</td> <td>-87</td> </tr> <tr> <td>MCS4 / MCS12</td> <td>-86 / -84</td> </tr> <tr> <td>MCS5 / MCS13</td> <td>-83 / -79</td> </tr> </tbody> </table>	Channel	Data Rate	Rx Sensitivity (±2dBm)	802.11b (2.412 ~ 2.472GHz)	1Mbps	-97	2Mbps	-95	5.5Mbps	-93	11Mbps	-92	802.11g (2.412 ~ 2.472GHz)	6Mbps	-94	9Mbps	-94	12Mbps	-90	18Mbps	-85	24Mbps	-82	36Mbps	-80	48Mbps	-77	802.1n (2.412 ~ 2.472GHz)	54Mbps	-75	MCS0 / MCS8	-95	MCS1 / MCS9	-93	MCS2 / MCS10	-90	MCS3 / MCS11	-87	MCS4 / MCS12	-86 / -84	MCS5 / MCS13	-83 / -79
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	MCS6 / MCS14	-73	
	MCS7 / MCS15	-70	
	MCS16/17/18/19	-95/-93/-90/-87	
	MCS 20/21	-84 / -79	
	MCS 22/23	-73/-70	
	802.11a (5.18 ~ 5.825GHz)	6Mbps	-94
		9Mbps	-94
		12Mbps	-90
		18Mbps	-85
		24Mbps	-82
		36Mbps	-80
		48Mbps	-77
		54Mbps	-75
	802.11n(5.18 ~ 5.825GHz)	MCS0 / MCS8	-95
		MCS1 / MCS9	-93
		MCS2 / MCS10	-90
		MCS3 / MCS11	-87
		MCS4 / MCS12	-86 / -84
		MCS5 / MCS13	-83 / -79
		MCS6 / MCS14	-73
MCS7 / MCS15		-70	
MCS16/17/18/19		-95/-93/-90/-87	
MCS 20 / 21		-84 / -79	
MCS 22 / 23		-73 / -70	
<b>Antenna</b>		3 x 5dBi 2.4GHz dipole antenna (N-type) 3 x 5dBi 5 GHz dipole antenna (N-type)	
<b>SOFTWARE SPECIFICATIONS</b>			
<b>Operation Mode</b>	Access Point / Client Bridge / WDS AP/WDS Bridge		

<b>Wireless/Network</b>	Auto Channel Selection (Setting varies by Regulatory Domains) Distance Control (Ack Timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (8 SSID), BSSID WDS AP / WDS Bridge / WDS Station Multicast Supported RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot Obey Regulatory Power
<b>Security</b>	WEP Encryption-64/128/152 bit WPAWPA2 Personal (WPA-PSK using TKIP or AES) WPAWPA2 Enterprise (WPA-EAP using TKIP or AES) Hide SSID in beacons MAC address filtering, up to 50 Wireless STA (Client) connection list
<b>QoS</b>	WMM

ENVIRONMENT AND MECHANICAL	
<b>Temperature Range</b>	Operating -20°C~70°C
<b>Humidity (non-condensing)</b>	Storage -30°C to 80°C
<b>ESD Protection</b>	0%~90% typical
<b>Waterproof</b>	8KV
<b>Dimensions</b>	IP68
<b>Weight</b>	285mm (L) x 218mm (W) x 56mm (H)
<b>Temperature Range</b>	1450g

PACKAGE CONTENT	
1 x ENH900EXT	
3 x 2.4GHz Omni Antenna	
3 x 5GHz Omni Antenna	
1 x Power Adapter (48V/0.8A)	
1 x PoE Injector (EPE-48GR)	

1 x Pole Mount
1 x Wall Mount
1 x Screw Set
1 x Grounding Cable
1 x CD (User Manual)
1 x Quick Guide
1 x Installation Guide