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ENH210

LONG RANGE WIRELESS 11N OUTDOOR CB/AP

- IEEE802.11/b/g/n
- 2T+2R 300Mbps
- High Gain Antenna

ENH210 Wireless Outdoor Enterprise Client Bridge features 14dBi high gain antenna dual polarization with high output power and high sensitivity can extend the transmission range to deliver a stable wireless connection. ENH210 integrates 4 operation modes: Access Point, Client Bridge, Client Router and WDS.

With integrated 14dBi dual-polarized antenna and high output power, it's convenient to build up very long range wireless link while reducing dead spots. Advanced multi-function operation modes offer flexibility in constructing scalable wireless networks for all possible applications. ENH210 is designed to deliver reliable service under harsh outdoor environment with certified IP67 protection and tailored to accommodate multimedia streaming services with data-rate up to 300Mbps. Most importantly, it is built-in encryption standards (WEP, WPA, WPA2, TKIP/AES and IEEE802.1x) ensure maximum security and compatibility.

FEATURES	
SPECIFICATIONS	
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 300Mbps with 2T2R 802.11n
Long range transmitting	Transmit power control and distance control (ACK timeout)
Signal Strength Display	RF signal strength status is shown by LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
Multiple SSID	8 SSID supported. Each SSID can set itself wireless or WAN access setting.

* *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.*

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Datasheet
ENH210

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 802.11i & 802.1x WPA, WPA2 & IEEE802.1x Authenticator
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
MAC Filter	Provide MAC address Filter function
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II(RFC1213), Private MIB
SNMP	V1, V2c
RADIUS	RADIUS Accounting

SPECIFICATIONS		
Hardware Specification		
MCU	Atheros AR7242	
RF	Atheros AR9283	
Memory	64MB	
Flash	16MB	
Physical Interface	1 x Gigabit Ethernet Port with PoE support 1 x Gigabit Ethernet Port (Both Ethernet Ports support Surge Protection to 6KV)	
Power Requirements	- Active Ethernet (Power over Ethernet) - 802.3af/at support - Power Adapter 48V / 0.375A	
RF Specification		
Frequency Band	802.11b/g/n	
Data rate	300 Mbps	
RADIO FREQUENCY BAND (The Max. Power may be different depending on local regulations)		
Channel	**Tx Avg. Power** **Optimal (±2dBm)**	**Rx Sensitivity** **Optimal (±2dBm)**
802.11b(2.412 ~ 2.472GHz)		

ENH210 Data sheet Version 160512
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BUSINESS CLASS
ENH210

1Mbps	29	-97	
2Mbps	29	-95	
5.5Mbps	29	-92	
11Mbps	29	-89	
802.11g(2.412 ~ 2.472GHz)			
6Mbps	29	-96	
9Mbps	29	-93	
12Mbps	29	-89	
18Mbps	29	-85	
24Mbps	27	-81	
36Mbps	27	-79	
48Mbps	26	-76	
54Mbps	25	-75	
802.11n(2.412 ~ 2.472GHz) (2streams)			
MCS0 / MCS8	29	-95	
MCS1 / MCS9	29	-92	
MCS2 / MCS10	29	-87	
MCS3 / MCS11	29	-85	
MCS4 / MCS12	26	-80	
MCS5 / MCS13	25	-79	
MCS6 / MCS14	24	-74	
MCS7 / MCS15	23	-73	
Antenna	Internal 14dBi Directional Antenna		
	Peak Gain (dBi)	12 ~ 14	12 ~ 14
	VSWR	2.0 : 1	2.0 : 1
	HPBW (Horizontal)	32° ~ 36°	35°
	HPBW (Vertical)	32° ~ 36°	34°
	Isolation (dB)	25	
	F/B (dB)	20	
	Polarization	Linear	
	V-Plane		

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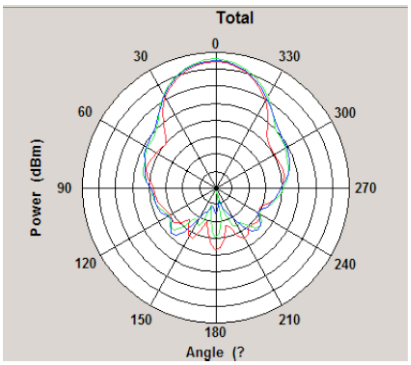
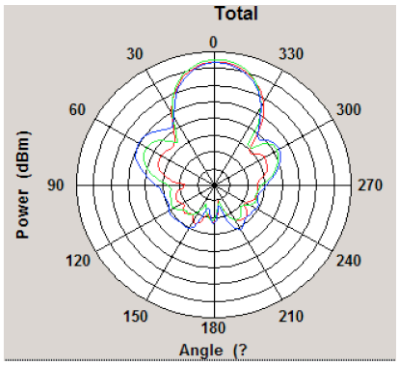
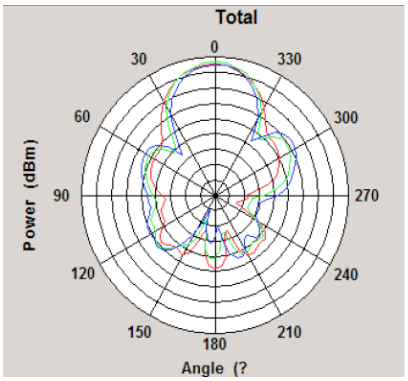
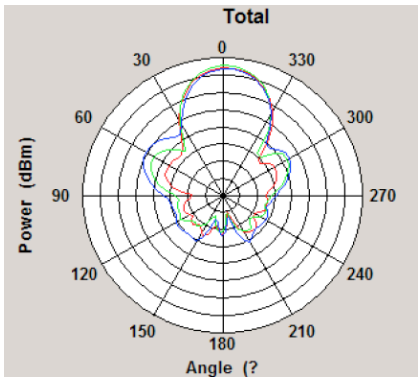
	 
	H-Plane
	 

Software Specification	
Operation Mode	Access Point / Client Bridge / Client Router / WDS
Wireless	Auto Channel Selection (Setting varies by Regular Domains) Distance Control (802.1x Ack timeout) Multiple SSID (4 SSID) VLAN Function WDS AP / WDS Bridge / WDS Station 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)
Firmware Upgrade	Upgrade firmware via web browser Fix latest setting parameter when firmware upgrading

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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
RADIUS	RADIUS Accounting
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
ESD Protection	20KV (Certificated Standard is 8KV)
Waterproof	IP67
Dimensions	323mm (L) x 230mm (W) x 107mm (H)
Weight	1568g

PACKAGE CONTENTS
► Wireless Long Range Outdoor 11N CB/AP (ENH210)
► PoE Injector (EPE-48GR)
► Power Adaptor
► CD with User's Manual
► QIG
► Mounting Set
► Special screw set

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