### THE LEADER IN LONG RANGE WIRELESS

# EnGenius EAP600

High-Powered, Dual-Band Indoor Wireless-N Access Point with Gigabit

#### **CONCURRENT DUAL-BAND** 300+300MBPS SUPPORT

802.11N dual radio concurrent operation in 2.4GHz and 5GHz for maximum wireless throughput performance

**MSSID AND VLAN SUPPORT** Up to 8 BSSIDs per radio with 802.1q VLAN tagging

**4X INTERNAL ANTENNAS** 

4x 5dBi Internal antennas optimizing maximum **RF** performance

### **AESTHETIC DESIGN ENCLOSURE**

"Smoke Detector" appearance and easy mounting mechanism with T-rail, ceiling, and wall mount kits

### HIGH-POWER, LONG-RANGE WI-FI

29 dBm for 2.4GHz, 26 dBm for 5GHz RF Tx power provides more than twice the Wi-Fi coverage over mainstream competitors

### 802.3af/at PoE COMPATIBLE

Supports Power over Ethernet (IEEE 802.3af/at) and allows deployment in areas where power outlets are not available

### SIMPLIFIED WIRELESS NETWORK MANAGEMENT

Includes SNMP-based wireless access point management software EZ Controller



Long-range High-powered RF provides excellent Wi-Fi penetration

The X-treme SMB EnGenius EAP600 is a concurrent dual-band 2.4+5GHz Wireless-N Indoor Access Point that features high transmit RF power (29 dBm on 2.4GHz and 26 dBm on 5GHz) for long range connectivity. With wireless speeds up to 300Mbps on each radio and a Gigabit port for connecting to a switch or router it's ideal for expanding a network with additional bandwidth to support additional users.

With the dual-band Wireless-N EAP600 companies can now offer employees, guests, staff or students more expanded options for users who transfer large files within the network or use other bandwidth intensive applications like streaming HD video. The AP's Gigabit Ethernet (10/100/1000) port also offers greater bandwidth capacity and faster data transfers through the network. This high-powered Access Point/WDS Bridge with its enhanced receive sensitivity and internal MIMO (Multiple In/ Multiple Out) antenna array extends wireless coverage and enhances connectivity to client devices even in areas where connections have been previously challenging or non-existent and in some buildings it's wireless signal can penetrate up to 3 floors. This makes the EAP600 ideal for extending networks within large or multi-story buildings or expansive, client-intensive facilities like hotels, resorts, hospitals, office buildings, universities or other multi-building campus facilities.



The 2012 reddot design award-winning EAP600 has been designed to appear as a low-profile smoke detector and thus unobtrusively blend in with other common building infrastructure appliances. Because the EAP600 is designed for deployments on ceilings where power outlets may be scarce, it is reddot design award also PoE (Power- over-Ethernet) IEEE 802.3af/at capable when used

### winner 2012

frequency spectrums supporting 802.11a/b/g/n standards.

with a PoE injector or PoE switch. The EAP600 can be configured to operate in several different modes - as a dual-band Wireless-N Access Point, a WDS Access Point, or Repeater. It operates concurrently in the 2.4GHz and 5GHz

EnG						
		EAP9550 Wireless-N AP	EAP150 High-powered Wireless-N AP	EAP300 High-powered Wireless-N AP	EAP 350 High-powered Wireless-N AP	EAP600 Concurrent Dual-band High-powered Wireless-N Al
	Frequency Band	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz & 5GHz
	Maximum Data Speed Rate	Up to 300Mbps	Up to 150Mbps	Up to 300Mbps	Up to 300Mbps	300+300Mbps
	LAN Interface	10/100	10/100	10/100	10/100/1000	10/100/1000
eatures	RF Transmit Power (in dBm)	20dBm	26dBm	29dBm	29dBm	2.4GHz: 29dBm   5GHz: 26dB
	Antenna	2x 4dBi Omni Embedded	2x 5dBi Omni Embedded	2x 5dBi Omni Embedded	2x 5dBi Omni Embedded	4x 5dBi Omni Embedded
	Users Support	Up to 32	Up to 32	Up to 32	Up to 50	Up to 50 on each radio
	Access Point	•	•	•	•	•
peration		•	•	•	•	•
Modes	WDS AP		•			•
				-	•	
	Universal Repeater	٠	•	•	•	•
		•	•	•	-	•
	Universal Repeater Client Isolation VPN Pass-through	-	•	-	•	•
iecurity	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting	-	•	-	•	•
iecurity	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting 802.1x Radius Support	•		•	•	•
lecurity	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting	•		•	•	•
ecurity	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting 802.1x Radius Support	•		•	•	• • • • 8 in each radio
iecurity	Universal Repeater Client Isolation VPN Pass-through AAC Addres Filting 802.1x Radius Support SSID to VLAN Mapping 85SID5 Qe5 (WMM)	•	•	•		•
	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting 802, 1x Radius Support SSID to VLAN Mapping BSSIDs Qcs (WMM) SSWØ	•	• • •	•	• • • • • • • • • • • • • • • • • • •	8 in each radio
	Universal Repeater Client Isolation VPN Pars-strough MAC Address Fitting BO2.1 k Radius Support SSID to VLAN Mapping BSSIDs QuS (WMM) SNMP Wreless Traffic Shaping	• • •	4 • • • • •	• • • • • • • • • • • • • • • • • • •	4 v1, v2c	8 in each radio
	Universal Repeater Client Isolation VPN Pass-through MAC Address Filting 802, 1x Radius Support SSID to VLAN Mapping BSSIDs Qcs (WMM) SSWØ	• • •	• • •	• • • •	• • • • • • • • • • • • • • • • • • •	8 in each radio

## **EAP600 - Technical Specifications**

### HARDWARE SPECIFICATIONS

MCU/RF	AR9344 + AR9382
Memory	64 MB
Flash	8 MB
Physical Interface	LAN: 1 x 10/100/1000 Gigabit Ethernet (RJ-45) port Reset Button Power Jack
Power requirements	Power Supply: 90 to 240 VDC ± 10%, 50/60 Hz (Depends on different countries) Active Ethernet (Power over Ethernet, IEEE 802.3af/at) 48 VDC/0.375A Device: 12V/2A

### **RF SPECIFICATIONS**

Wireless Standard	IEEE 802.11 a/b/g/n		
Frequency Band	Radio I: 802.11 b/g/n 2.412 ~ 2.484(GHz) Radio II: 802.11 a/n 5.18~5.24(GHz), 5.26~5.32(GHz), 5.5~5.7(GHz), 5.745~5.825(GHz)		
Modulation Technologies	OFDM: BPSK, QPSK, 16-OAM, 64-QAM, D	BPSK, DQPSK, CCK	
Operating Channels	2.4GHz: US/Canada 1-11 2.4GHz: Europe 1-13 2.4GHz: Japan 1-14 5GHz: Country dependent for the following ranges: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 1 132, 136, 140, 149, 153, 157, 161, 165		
	802.1 1b	802.11n (2.4GHz)	
	29 dBm @ 1Mbps	29 dBm @ MCS0/MCS8	
	29 dBm @ 2Mpbs	29 dBm @ MCS0/MCS9	
	29 dBm @ 5.5Mbps	28 dBm @ MCS0/MCS10	
	29 dBm @ 11Mbps	28 dBm @ MCS0/MCS11	
	000.11	24 dBm @ MCS0/MCS12	
	802.11g	24 dBm @ MCS0/MCS13	
	29 dBm @ 6Mbps	23 dBm @ MCS0/MCS14	
	29 dBm @ 9Mpbs	23 dBm @ MCS0/MCS15	
	28 dBm @ 12Mbps		
Transmit Power	28 dBm @ 18Mbps 24 dBm @ 24Mbps	802.11n (5GHz)	
	24 dBm @ 36Mbps	26 dBm @ MCS0/MCS8	
	23 dBm @ 48Mbps	26 dBm @ MCS0/MCS9	
	23 dBm @ 54Mbps	25 dBm @ MCS0/MCS10	
	25 dbii @ 54Mbps	25 dBm @ MCS0/MCS11	
	802.11a	24 dBm @ MCS0/MCS12	
	26 dBm @ 6Mbps – 9Mbps	24 dBm @ MCS0/MCS13	
	25 dBm @ 6Mbps – 9Mbps	23 dBm @ MCS0/MCS14	
	24 dBm @ 24Mbps – 36Mbps	23 dBm @ MCS0/MCS15	
	23 dBm @ 48Mbps – 54Mbps		
Receiver Sensitivity	802.11b ≤ -98 dBm @ 1Mbps ≤ -93 dBm @ 11Mbps 802.11g ≤ -96 dBm @ 6Mbps ≤ -82 dBm @ 54Mbps 802.11a ≤ -90 dBm @ 6Mbps ≤ -72 dBm @ 54Mbps	802.11n ≤ -97 dBm @ MCS0 (2.4Ghz) ≤ -78 dBm @ MCS7 ≤ -96 dBm @ MCS8 ≤ -76 dBm @ MCS1 802.11n ≤ -89 dBm @ MCS0 (5Ghz) ≤ -70 dBm @ MCS7 ≤ -89 dBm @ MCS8 ≤ -70 dBm @ MCS15	
Antenna	4x internal 5dBi antennas (Diversity su	upport)	



### SOFTWARE SPECIFICATIONS

Topology	Infrastructure/Ad-Hoc		
Operation Mode	Access Point/WDS Bridge/WDS AP/Universal Repeater		
Multiple BSSID	Supports up to 8 BSSIDs per radio		
LAN	IP (check validity and DHCP server IP range)MAC		
VLANs	Supports 802.1q SSID to VLAN mapping		
Spanning Tree	Supports 802.1d Spanning Tree Protocol		
Wireless	Wireless mode: 11a/11b/11g/11n Channel selection (setting varies by country) Channel bandwidth (Auto, 20MHz, 40MHz) Transmission rate: 2.4GHz: 11n only, 11b/g/n mix, 11b only, 11b/g, 11g only 5GHz: 11n only, 11a/n mix, 11a only		
VPN	VPN pass-through (PPTP, L2TP, IPSEC)		
QoS	WMM		
WPS	Software only		
Security	WEP Encryption - 64/128 bit WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1 x Authenticator: NDS/TLS/TLS, PEAP SSID broadcast enable/disable WLAN NAC Adverss Filter WLAN L2 isolation (AP mode) WIAN L2 isolation (AP mode) Wireless STA (Client) connected list (Idle/Connection Time, Pkt statistics)		

### MANAGEMENT

Tx Power Control	Adjust transmit power by dBm
Configuration	Web-based configuration (HTTP)/Telnet
Telnet Server	СШ
Firmware Upgrade	Upgrade firmware via web browser
Administrator Setting	Administrator Username & Password change
Reset Setting	Reboot (press 1 second). Reset to Factory Default (press 10 second)
System Monitoring	Status Statistic and Event log
SNMP	V1, V2c, V3
MIB	MIB I, MIB II (RFC1213) and Private MIB
Traffic Shaping	Incoming and outgoing wireless traffic shaping
Auto-channel Selection	Automatically selecting least congested channel
Bandwidth Measurement	IP range and bandwidth management
Auto Reboot	Reboot AP by min, hour, day, week
Backup & Restore	Save & restore settings through Web interface
CLI	Support Command Line Interface
Diagnosis	IP pinging statistics
Log	SysLog and Local Log support
LED Control	On/Off
AP Detection	Scanning for available EnGenius APs

### **ENVIRONMENT & PHYSICAL**

Temperature Range	Operating: 0 to 50° C (32° to 122° F) Storage: -20 to 60° C (4° to 140° F)
Humidity (non-condensing)	Operating: 90% or less Storage: 90% of less
Dimensions:	Diameter: 6.36″ (161.5mm) Height: 1.64″ (41.5mm)
Weight	0.62 lb. (280g)
Certifications	FCC, IC

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