THE LEADER IN LONG RANGE BUSINESS CLASS WIRELESS DATA

EAP300

Business Class, Indoor Long Range Wireless-N Access Point/WDS/Repeater

Key Differentiators

HIGH-POWER, LONG-RANGE WI-FI

Up to 29dBm RF Tx power provides greater Wi-Fi coverage compared to mainstream competitors

WIRELESS-N 6X SPEED OVER 802.11G NETWORKS

MIMO delivers up to 300Mpbs speed rate

AESTHETIC DESIGN

"Smoke Detector" Design – Unobtrusive design can be easily mounted to wall and ceiling

SSID TO VLAN MAPPING

Supports 802.1q mapping of SSIDs with up to 4 VLANs

802.3AF POE COMPATIBLE

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

INTEGRATED ANTENNA

Internal 5dBi antenna with optimized configuration and RF performance

Ideal For:

HOTELS & RESORTS

CAMPUSES & CLASSROOMS

PUBLIC HOTSPOTS

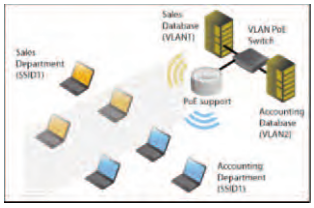
CONFERENCE ROOMS

MULTI-STORY HOMES

COMMON AREAS

WAREHOUSES

RESTAURANTS



SSID TO VLAN MAPPING SEGMENTS USERS ON THE NETWORK

EnGenius®

EAP300 – Technical Specifications

Specifications may change without notice.

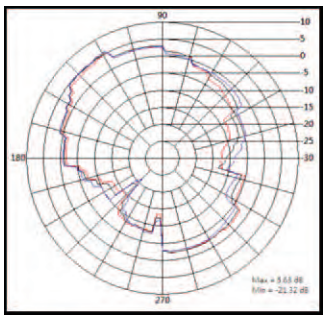
HARDWARE SPECIFICATIONS

MCU/RF	RTL8196C + RTL8192CE
Memory	32 MB
Flash	4 MB
Physical Interface	LAN: 1 x 10/100 Fast Ethernet RJ-45 Reset Button Power Jack
LED Indicators	Power Status LAN (10/100Mpbs) WLAN (Wireless connection)
Power requirement	Power Supply: 90 to 240 VDC ± 10%, 50/60 Hz (depends on different countries) Active Ethernet (Power over Ethernet, IEEE802.3af) 48 VDC/0.375A Device: 12V/1A

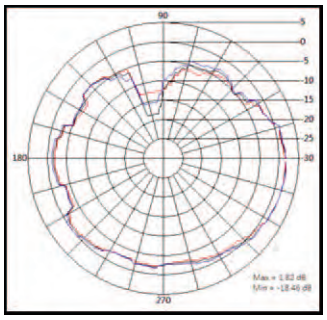
RF SPECIFICATIONS

Wireless standard	IEEE802.11 b/g/n		
Frequency	2.400 ~ 2.484GHz (b/g/n)		
Modulation Technologies	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK		
Operating Channels	11 channels		
Transmit Power	**802.11b(2.412 ~ 2.472GHz)** 29 dBm @ 1Mbps 29 dBm @ 2Mbps 29 dBm @ 5.5Mbps 29 dBm @ 11Mbps	**802.11g(2.412 ~ 2.472GHz)** 29 dBm @ 6Mbps 29 dBm @ 9Mbps 28 dBm @ 12Mbps 28 dBm @ 18Mbps 24 dBm @ 24Mbps 24 dBm @ 36Mbps 23 dBm @ 48Mbps 23 dBm @ 54Mbps	**802.11n(2.412 ~ 2.472GHz)** 26 dBm @ MCS0/MCS8 26 dBm @ MCS1/MCS9 25 dBm @ MCS2/MCS10 25 dBm @ MCS3/MCS11 24 dBm @ MCS4/MCS12 24 dBm @ MCS5/MCS13 23 dBm @ MCS6/MCS14 23 dBm @ MCS7/MCS15
Receiver Sensitivity	802.11b (2.412 ~ 2.472 GHz) best ≤ -93 dBm 802.11g (2.412 ~ 2.472 GHz) best ≤ -90 dBm 802.11n (2.412 ~ 2.472 GHz) best ≤ -88 dBm		
Antenna	Embedded omnidirectional antenna (Diversity support) Antenna Gain = 5 dBi		

Internal Antenna Pattern – XY-Plane
2400 MHz-T 2450 MHz-T 2500 MHz-T



Internal Antenna Pattern – XZ-Plane
2400 MHz-T 2450 MHz-T 2500 MHz-T



Internal Antenna Pattern – YZ-Plane
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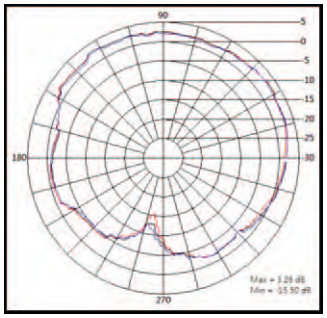

SOFTWARE SPECIFICATIONS

Topology	Infrastructure/Ad-Hoc
Operation Mode	Access Point/ WDS/Repeater
Multiple BSSID	Supports up to 4 BSSIDs
LAN	IP (check validity and DHCP server IP range) MAC
VLANs	Supports 802.1q (up to 4 VLANs) SSID to VLAN mapping
Spanning Tree	Supports 802.1d Spanning Tree Protocol
Wireless	Wireless mode: 11b/11g/11n Channel selection (setting varies by country) Channel bandwidth (Auto, 20MHz, 40MHz) Transmission rate:11n only, 11b/g/n mix, 11b only, 11b/g, 11g 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) 802.1x Authenticator SSID broadcast enable/disable MAC Address Filter(AP mode) WLAN 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	CLI
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
MIB	MIB I , MIB II(RFC1213) and Private MIB
Traffic Measurement	Per interface
Auto-channel Selection	Automatically selecting least congested channel
Bandwidth Measurement	IP range and bandwidth management
Backup & Restore	Save & restore settings through Web interface
Diagnosis	IP pinging statistics

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: 4.73" (120mm) Height: 1.97" (50mm)
Weight	0.62 lb. (280g)
Certifications	FCC, CE, IC

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