

SL-500HS

802.11b/g High Power Outdoor AP - Bridge



Key Features

- Adjustable RF Output power, High Power up to 500mW • 54Mbps; 4 times faster than IEEE 802.11b standard
- Multi-BSSID support (VSSID) with VLAN tags
- Channel support : North America, Europe, Japan
- Various Antenna Configurations
- Highly integrated single chip access point solution, including integrated 32-bit MIPS R4Kc-class Processor, multiprotocol MAC/baseband, and Radio
- Uses digital CMOS technology exclusively, minimizing power consumption and cost while maximizing reliability
- Non Line of sight (NLOS) and line of Sight (LOS) Deployments
- Next-generation OFDM radio provides best-in-class range, throughput and power consumption
- Atheros XR™ eXtended Range technology to give Wi-Fi products twice the range of existing designs
- Auto rate fallback in case of obstacles or interferences
- Supports WPA / WPA2 security enhanced function
- Supports WDS(Wireless Distributed System) bridge mode
- Provides station mode to act as a wireless LAN client station
- Supports roaming link integrity
- Supports authentication for wireless connectivity based on ESSID
- Provides 64/128 bit key length WEP data encryption
- POE built-in for single cable installation

Benefits

Sesami SL-500HS is an outdoor high power multi-mode wireless access point solution specially designed for WISP applications in any harsh environments. It is not just an N-in-1 box, but employs up to 23 - 27dbm (200mW - 500mW) 802.11b/g RF output power which enables WISP operators to reach more customers in broader area. For today's competitive WISP market, SL-500HS is an ideal solution encompassing the flexible deployment, high security, lower TCO, and ease-of-use advantages.

Access Point - Scenario

- Multiple virtual AP
- Virtual AP tagging to VLAN's
- Different security settings per virtual AP • UAM configuration per virtual AP • Wireless ACL configuration
- RCMS agent configuration • SNMP

Point-to-Point and Point-to-Multipoint Scenario

- WDS (Wireless Distribution System) • Security settings
- Antenna alignment tool
- Site survey tool
- Throughput, data rates and ACK timeout tests

Client (CPE) - Scenario

- Wireless client operation in IEEE 802.11 a/b/g modes
- WPA/WPA2 with PSK, TKIP/CCMP PEAP/EAP-TTLS with MSCHAP v2 wireless encryption and authentication
- Atheros Super features, WMM, full/half/quarter channel rates
- Station WDS mode
- Router and bridge modes
- DHCP client/ relay server
- Port forwarding and PPPoE client
- RSSI indication for easier antenna alignment procedure
- Advanced wireless settings, site survey, system log viewer, troubleshooting information gatherer are included with a purpose to help with device installation and tuning.

Specification

Standards

Wireless: IEEE 802.11a/b/g
Ethernet: IEEE 802.3/u (10/100BaseTx)

Data Rate

802.11g: 54/48/36/24/12/9/6 Mbps
802.11b: 11/5.5/2/1 Mbps

Hard Ware - Chipset

Atheros AR2315 (500mW Output Power)

Memory - Speed

SDRAM: 256Mbit (32MB) of 16-bit 166MHz
FLASH: 64 Mbit (8MB) of 3V supply Flash memory
Processor Speed: 183MHz

Frequency Range

IEEE802.11b/g: 2412 ~ 2462 MHz (N.A)
2412 ~ 2472 MHz (EU)
2412 ~ 2484 MHz (Japan)
* (Country dependant)

Operating Channel

IEEE802.11b/g : 14 channels (Japan)
13 channels (Europe)
11 channels (USA)

Radio Scheme Type

802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11b: DSSS (CCK, DQPSK, DBPSK)

Operation Mode

Access Point
AP Client (Ethernet-WLAN Bridge)
Bridge (Wireless Repeater, PtP, PtMP Bridge)
Wireless Router
AP Client with Routing Function (WISP Mode)

Operating Environment

Temperature: -30°C ~ +70°C
Humidity: 5%~98% non-condensing

Output Power

IEEE802.11b: 27dBm Max @ 11Mbps (Adjustable)
IEEE802.11g: 27dBm Max @ 6-24Mbps (Adjustable)
26dBm Max @ 36Mbps (Adjustable)
24dBm Max @ 48Mbps (Adjustable)
23dBm Max @ 54Mbps (Adjustable)

Receive Sensitivity

802.11g: -75 +/- 2dBm @54Mbps
802.11b: -90 +/- 2dBm @11Mbps

Standards & Protocol

802.3/u: 10/100 Mbps Fast Ethernet,
IP v4, UDP, ICMP, TCP
Routing: RIPv1, RIPv2
Secure: PAP, CHAP
Network Timing Protocol, DHCP, DDNS, PPPoE, UPnP

Security

WEP 64/128 , 802.1X support
Wi-Fi Protected Access (WPA)
WPA-PSK, WPA II
SSID Broadcast Disable function
Firewall: MAC Filter IP Filter VPN Pass through:
IPsec; PPTP Thermal display

Configuration & Management

Web-Based Configuration
TFTP for software upgrade available
Syslog SNMP: MIBII v1,2,3
Support alias IP

Adjustable Channel Size

5MHz, 10MHz, 20MHz

Other Integration

Power Over Ethernet
Lightning Arrestor on board
Hardware heating sensor

Applications

Outdoor Access Point / Outdoor CPE / Outdoor Point-to-Point / Outdoor Point-to-Multi-Point
Outdoor Hot Spot / Outdoor Surveillance

Order Information - Options

- * SL-500HS : With Integrated 16dBi Panel Antenna (2.4Ghz) - POE
- * SL-5TW : With N Type (Female) Interface - POE
(* Outdoor Reset Push Button)



SL-500HS



SL-5TW

Package Contents

1. Wireless Outdoor Bridge
2. Power Adapter + Power Cord (Power 48V 1A)
3. RJ-45 Waterproof Hat
4. DC Injector
5. Fixed Setting
6. CD with User Guide



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