

SL-25GTW

802.11a/b/g Dual Band – High Power Mesh Radio (Turbo)



Sesami SL-25GTW is a Dual-RF output and Dual-RF module wireless MESH network product. Working at 2.4GHz and 5.8GHz simultaneous. SL-25GTW is high power wireless MESH network equipment. The wireless node can self-configure, dispose the network, and the network failure can be repaired automatically so that the overall performance and the usability achieves the optimization. This equipment makes use of advance algorithm to enhance the throughput and low time-out from the centre to the edge of the network. This equipment is not only the wireless MESH junction point, but also may simultaneously support the wireless hotspot covering. It will provide the wireless broadcast access and the high bandwidth audio frequency /data/video frequency service for the municipal administration, the public security department and the inhabitant, and won't be affected by the position and mobilization of the users completely.

Key Features

- High Speed-Provides “ Turbo Mode” data rate speeds up to 108Mbps, Adjustable RF Output power
- 802,1x port-based authentication protocol is supported with extensible Authentication Protocol (EAP) MD5, Transport Layer Security (TLS), Protected EAP (PEAP) and Tunneled TLS(TTLS) for AP security
- Supports new QoS standard Wi-Fi Multimedia (WMM) and IEEE 802.11e 8 queues with strict priority scheduling Classification: SA, DA, Ether Type, IEEE 802.1p tag
- Dual Frequency Radio 802.11a/b/g (Turbo 108Mbps)
- VLAN support for up to 64 groups and 8 Virtual AP (Multiple SSID)
- WDS Bridge feature-Supports AP , Bridge and Root Bridge and Repeater connections.
- Support IP management: Any IP / Single IP / Multiple IP to access device.
- Support RADIUS Server / SMNP v1,v2,v3 / DHCP for IP address assignment / DHCP relay
- Supports IEEE 802.1D Spanning Tree Protocol
- All Wireless nodes auto-discover and self-configure
- Self-tuning and self-healing mesh for network optimization
- Channel support : North America, Europe, Japan
- Various Antenna Configurations
- Non Line of sight (NLOS) and line of Sight (LOS) Deployments
- Auto rate fallback in case of obstacles or interferences
- Supports WPA / WPA2 security enhanced function
- Provides station mode to act as a wireless LAN client station
- Supports roaming link integrity and authentication for wireless connectivity based on ESSID
- Provides 64/128 bit key length WEP data encryption
- POE built-in for single cable installation

Benefits

- Low Latency and High throughput over Multiple Hops
- Daisy Chained Wireless Hot Zones
- Low latency and high throughput upon multiple wireless hops
- Reliable performance when deploying multiple nodes in bridged or routed environments
- Bandwidth control module at subscriber level
- Stable and reliable network. Have the ability of automatic adjustment to choose optimal path.
- Simple network structure. Easy to install. New node to join the network can be discovered automatically. Reduce the deployment cost and the operation management work load.

Specification

Standards

Wireless: IEEE 802.11a/b/g
Ethernet: 10/100Base-T/TX RJ-45 port (Supports IEEE 802.3af Power Over Ethernet)

Data Rate

IEEE802.11a: 6/9/12/18/24/36/48/54 Mbps Up to 108Mbps (turbo mode)
IEEE 802.11g: 6/9/12/18/24/36/48/54 Mbps Up to 108Mbps (turbo mode)
IEEE 802.11b: 1/2/5.5/11 Mbps

Hard Ware - Chipset

CPU/BB/MAC: Atheros 2313
Radio: Atheros 5112(2112)

Frequency Range

IEEE 802.11a

5.15 - 5.25GHz (lower band) for US / Canada, Japan
5.25 - 5.35 GHz (middle band) for US / Canada
5.725 - 5.825 GHz (upper band) for US / Canada
5.50 - 5.70GHz for Europe

IEEE 802.11b/g

2400 - 2438.5 MHz for US, Canada, and ETSI
2400 - 2496MHz for Japan
* (Country dependant)

Operating Channel

802.11a: 12 channels in base mode (US,Canada)
5 channels in Turbo mode (US,Canada)
4 channels (Japan)
11 channels in base mode (Europe)
4 channels in Turbo mode (Europe)

802.11b/g: 11 channels in base mode (US Canada)
13 channels (ETSI), 14 channels (Japan)

Data Modulation Tech

IEEE 802.11a: BPSK, QPSK, 16-QAM, 64-QAM
IEEE 802.11b/g: CCK, BPSK, QPSK, OFDM

Media Access Protocol

CSMA/CA with ACK

Applications

Outdoor Mesh Network / Outdoor Access Point with Backhaul / Outdoor Point-to-Point / Outdoor Point-to-Multi-Point
Outdoor Hot Spot / Outdoor Surveillance

Output Power

IEEE802.11a: 20dBm Max (Adjustable)
IEEE802.11g/b: 23dBm Max (Adjustable)

Sensitivity

802.11a: 6Mbps 10-5 BER @ -88dBm; 54 Mbps 10-5BER @ -67dBm
802.11g: 11Mbps 10-5 BER @ -80dBm; 54 Mbps 10-5 BER @ -65dBm

Security

IEEE 802.1x Authentication Access Control with Key Rotation
WEP security: 64/128/152 bits, Local MAC address filtering
Radius client support , ACL / WPA and AES / SSH

Configuration & Management

- QoS (WMM)
- VLAN support up to 16 group
- Web Interface
- Telnet, CLI
- SNMP v1
- Event Logging
- Syslog RFC 3164
- Supports DHCP client for IP address assignment
- Configuration file upload/download
- System Watchdog

MIB Support

RFC1213 MIB-2

Operating Environment

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

Other Integration

Power Over Ethernet on Board
Lightning Arrestor on board
Hardware heating sensor

Order Information - Options

- * SL-25GTW : With two N Type (Female) Interface.
- * SL-25GTW-16: With Integrated 16dBi Panel Antenna (2.4 GHz), One N Type (Female) Interface (5 GHz).
- * SL-25GTW-18: With Integrated 18dBi Panel Antenna (5 GHz), One N Type (Female) Interface (2.4Ghz)
(* Outdoor Reset Push Button)



SL-25GTW



SL-25GTW-16



SL-25GTW-18

Package Contents

1. Wireless Outdoor Bridge
2. Power Adapter + Power Cord (Power 18V 1A)
3. RJ-45 Waterproof Hat
4. DC Injector
5. Fixed Setting
6. CD with User Guide



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