Siselectron TECHNOLOGY

SWE2520
Indoor Access Point

OVERVIEW

The SWE2520 leverages the breakthrough speed and performance 802.11ac for connecting to laptops and other devices that need to wirelessly stream HD video or transfer large files. The SWE2520 is an 802.11ac 3x3 Indoor Access Point.

This high-powered ceiling mount Dual Band Access Point features speeds up to 450 Mbps on 2.4 GHz and up to 1300 Mbps on the 5 GHz band when associated with AC client devices. It can be configured as an Access Point, Client Bridge, or WDS (AP & Bridge) and features a high transmit RF power of 28 dBm transmit RF power on the 2.4 GHz band and 26 dBm on the 5 GHz band for long range connectivity.

The SWE2520 includes a Gigabit Ethernet port for connecting to 802.3at-capable PoE Switches and an enhanced receive sensitivity MIMO (Multiple In / Multiple Out) integrated sectorized 3D antenna array. It's an ideal solution for spacious interior environments such as large homes, small and medium-sized businesses, multiple-floor buildings, hotels, hospitals, and other venues.

BENEFITS

The SWE2520 can be configured to operate in several different modes for unique and customized deployment scenarios; as a Dual Band Wireless Access Point, a WDS Bridge, or a WDS Access Point.

The SWE2520 which finds the most efficient signal path to AC-compatible computers and other devices at wireless speeds nearly 3x faster than Wireless N. The Access Point's Gigabit Ethernet port also offers greater bandwidth capacity and faster data transfers through the network. This makes the SWE2520 an excellent solution for bandwidth-intensive applications such as HD video streaming.

The SWE2520 also features Band Steering, which shifts traffic for Dual Band-capable clients to the 5 GHz band from the 2.4 GHz band, helping to relieve network congestion and maintain optimal data throughput

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Wireless Radio Specification

- Dual Current Radio:
  - 2.4GHz: 802.11b/g/n with max data rate up to 450Mbps.
  - 5GHz: 802.11 a/n/ac with max data rate up to 1300Mbps.
- Transmit Power [maximum Value):
  - 2.4GHz:Max 28dBm.
  - 5GHz: Max 28dBm
  - Maximum transmit power is limited by regulatory power.
- Radio Chains/Spatial Streams: 3 x 3 : 3
- Supported Radio Technology:
  - 802.11b: direct-sequence spread-spectrum (DSSS).
  - 802.11a/g/n/ac: orthogonal frequency division multiplexing (OFDM).
- Channelization
  - 802.11ac with 20/40/80 MHz channel width
  - 802.11n with 20/40 MHz channel width
  - 802.11a/b/g with 20 MHz channel width
- Supported Modulation:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM.
  - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM.
- Supported data rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: 6.5 to 300 (MCSO to MCS15]
  - 802.11n: 6.5 to 867 (MCSO to MCS9, NSS= 1~2]

Physical Characteristics

- Power Source:
  - DC Input: 12 VDC /1A
  - PoE: compatible with 802.3at
- Internal High Gain Antennas
  - 2 x 5dBi 2.4GHz antennas
  - 2 x 5dBi 5GHz antennas
- Interface
  - 1 x10/100/1000 BASE-T Ethernet (RJ45) with 802.3at PoE
  - 1 x DC power connector
  - 1 x reset button
- Dimensions / Weight
  - 161.5 x 41.5mm (Diameter x Height)
  - 290g
- Environment
  - Operating temperature: O'C~40°C
  - Operating humidity: O% 90% typical
  - Storage temperature: -20T-60°C
- Mounting
  - Ceiling mount or wall mount
- Physical Security
  - Kensington security slot

Wireless

- Operating Modes
  - AP / WDS
- Auto Channel Selection
  - Setting varies by regulatory domains
- SSIDs:
  - Supports up to 8 SSIDs per frecuancy band
- VLAN Tag / VLAN Pass-through
- Wireless Client List
- Guest Network
  - Allocates a separate network segment for guest access within the same WLAN.
- QoS: Supports 802.11e/WMM/Traffic Shaping
- Band Steering
  - Moves 5GHz-compatible clients to 5GHz band to ease traffic congestion on 2.4GHz band.
- Mobility: PMKSA support for fast roaming
- Security
  - WEP encryption: 64/128/152-bit
  - WPA/WPA2 Enterprise/PSK
  - Hidden SSID
  - MAC address filtering (up to 50 MAC)
  - Station separation

Management

- Configuration
  - Web interface (HTTP/S)
  - SNMP vl/v2c/v3 with MIB I/II and private MIB
  - CLI (Telnet/SSH)
- Firmware Upgrade
  - Web interface or CLI
- Backup / Restore Settings
  - Revert to factory default settings
- Save configuration as defult
  - Saves the customized configuration as default
- Auto Reboot
  - Especifies interval to reboot system periodically
- E-mail alert / Syslog Notification
  - Provides a Network monitoring tool for adminitrators to sty informed upon configuration change or network errors.

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