AP268HB

2.4/5GHz Dual-band Access Point with Remote Management

Product Overview

EstiNet AP268HB is a highly reliable ceiling-mount wireless access point designed to extend wireless network coverage for enterprise users. With the latest wireless 802.11ac technology for improvements in the speed, reliability and quality of wireless communications, the AP268HB provides simultaneous operation in both 2.4GHz and 5GHz wireless coverage for maximum flexibility.

Maximum 24dBm power transmission provides larger wireless coverage for your environment. The solid capacitors used in the AP268HB guarantee safety for long term usage. The Power Saving function not only saves the power consumption of the access point, but also saves the battery power for connected mobile devices. Additionally, the AP268HB has a wide range of potential applications from office environments to schools, campuses, hotels and hospitals. Multiple SSIDs can be configured for different departments or user groups. In addition, AP268HB can collaborate with EstiNet SDN Controller to achieve unified wired and wireless network remote management and obtain much more powerful management features through the latest SDN technologies.

Key Features and Benefits

- **Easy Installation**

    Ceiling-mount mount design with easy installation kit.

- **Multiple SSIDs for Security Management**

    Supports up to 8 SSIDs ideal for multiple departments, user groups, customers or guests.

- **Wide Coverage & High Sensitivity**

    Adjustable RF output power and high receiver sensitivity for wide coverage across large spaces.

- **Power over Ethernet**

    Supports IEEE 802.3at PoE as well as included power adapter.

- **Advanced QoS Management & Traffic Shaping**

    Traffic priority can be arranged and managed by SSID, MAC address, port and IP address.

- **Central Management**

    Built-in Network Management Suite (NMS), easy and Intuitive web-based central management suite, supports AP array architecture. Much more features and capabilities can be obtained by working with EstiNet SDN Controller

Product Specifications

Hardware

- MCU/RF

  Qualcomm Atheros QCA9563(2.4GHz) + Qualcomm Atheros QCA9886(5GHz)

- Switch

  Qualcomm Atheros QCA8337

- Memory

  128 MB

- Flash

  16 MB

- Physical Interface

  WAN: 1 x 10/100/1000 Gigabit Ethernet with 802.3at PoE support

  LAN: 1 x 10/100/1000 Gigabit Ethernet

  Reset Button

  DC Power Jack

- Power Requirement

  Power over Ethernet, IEEE 802.3at

- Antenna

  Internal Antenna (4dBi 2.4GHz x 2, 5dBi 5GHz x 2)

RF

- Wireless Standard

  IEEE 802.11 a/b/g/n/an/ac

- Frequency Band

  (The supported frequency band is restricted by local regulations.)

  Radio I: 802.11b/g/n 2.400~2.484(GHz)

  Radio II: 802.11a/n/ac 5.150~5.250(GHz), 5.250~5.350(GHz), 5.470~5.725(GHz), 5.725~5.850(GHz)

- Operation Channels

  (The support channel is restricted by local regulatory requirements.)

  2.4GHz: US/Canada 1-11

  2.4GHz: Europe 1-13

  2.4GHz: Japan 1-14

  5GHz: 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 149, 153, 157, 161, 165

- Maximum Data Speed

  802.11n : 300Mbps

  802.11ac: 866Mbps

Receiver Sensitivity

- 802.11b

  ≤ -76dBm@ 11Mbps

- 802.11g

  ≤ -82dBm@ 6Mbps

  ≤ -65dBm@ 54Mbps

- 802.11a

  ≤ -82dBm@ 6Mbps

  ≤ -65dBm@ 54Mbps

- 802.11g/n

  ≤ -82dBm@ MCS0 (HT20) ≤ -64dBm@ MCS7 (HT20)

  ≤ -79dBm@ MCS0 (HT40) ≤ -61dBm@ MCS7 (HT40)

- 802.11a/n

  ≤ -82dBm@ MCS0 (HT20) ≤ -64dBm@ MCS7 (HT20)

  ≤ -79dBm@ MCS0 (HT40) ≤ -61dBm@ MCS7 (HT40)

- 802.802.11ac

  ≤ -82dBm@ MCS0 (VHT20) ≤ -59dBm@ MCS8 (VHT20)

  ≤ -79dBm@ MCS0 (VHT40) ≤ -56dBm@ MCS8 (VHT40)

  ≤ -76dBm@ MCS0 (VHT80) ≤ -53dBm@ MCS8 (VHT80)

Transmit Power (Maximum power is limited by local regulation)

- 802.11b

  27dBm@ 11Mbps

- 802.11g

  27dBm@ 6Mbps

  23dBm@ 54Mbps

- 802.11a

  25dBm@ 6Mbps

  22dBm@ 54Mbps

- 802.11g/n

  27dBm@ MCS0 (HT20) 23dBm@ MCS7 (HT20)

  27dBm@ MCS0 (HT40) 23dBm@ MCS7 (HT40)

- 802.11a/n

  24dBm@ MCS0 (HT20) 22dBm@ MCS7 (HT20)

  24dBm@ MCS0 (HT40) 22dBm@ MCS7 (HT40)

- 802.802.11ac

  24dBm@ MCS0 (VHT20) 20dBm@ MCS8 (VHT20)

  24dBm@ MCS0 (VHT40) 18dBm@ MCS8 (VHT40)

  24dBm@ MCS0 (VHT80) 18dBm@ MCS8 (VHT80

Product Specifications

Management

- Tx Power Control
    - Adjust transmit power by 10, 25, 50, 75, 90, 100%
- Configuration
    - Web-based configuration
- Firmware
    - Firmware upgrade via web browser
- CAPWAP
- SNMP
- SNMP Trap
- Fault Detection and Alarm
- CLI
    - Support SSH, Telnet
- Diagnosis Capabilities
    - User List
    - Adjacent AP Scan
    - IP Ping Test
    - Port Statistics

Environment & Physical

- Temperature Range:
    - Operating : -15 to 55℃
    - Storage: -15 to 60℃
- Humidity
    - Operating: 90% or less
    - Storage: 90% or less
- Certifications :
    - FCC, CE
- Dimensions:
    - 175(L)mm x 175(D)mm x 39(H)mm
- Weight:
    - 500g

Software

- Operation Mode
    - Thin AP mode/ Fat AP mode/ Router mode
- Multiple BSSID
    - Total 16 (8 for 2.4GHz, 8 for 5GHz)
- VLANs
    - SSID and Ethernet port based Tag/Untag
    - (VID = 1~4096)
- Wireless Mode
    - Wireless Mode : 11a/11b/11g/11n/11an/11ac
    - Channel selection (Setting varies by country)
    - Channel bandwidth (Auto, 20MHz, 40MHz, 80MHz)
- Transmission Rate
    - 2.4GHz : 11b, 11g, 11b/g, 11g/n, 11/b/g/n
    - 5GHz : 11a, 11a/n, 11a/n/ac
- Pass-through：
    - Support VPN Pass-through
- QoS
    - WMM, Max Associated Station Number
- Security
    - WEP Encryption – 64/128 bit
    - WPA (WPA-PSK using TKIP or AES)
    - WPA(2)
    - 802.1x Authenticator
    - SSID Broadcast enable / disable
    - 256 WLAN MAC Address Filter
    - WLAN L2 isolation (AP mode)
    - Wireless STA (Client) connected list