ZN-7100-2DH-G
DUAL-BAND 802.11N
FIBER ACCESS POINT

This Enterprise-Class Wi-Fi Access Point Delivers High Performance And High-Density for Business and Hotspot Environments

The high performance ZN-7100-2DH-G is an indoor-mount wireless access point compliant with the 802.11n standard. It features purpose-built capabilities for the service provider market, such as the incorporation of fiber optic network interface for SFP intergration and support for high-density users. The AP operates at both 2.4GHz and 5GHz frequencies, supporting a maximum data rate of 300Mbps per radio. It provides optimal performance for high density environments with bandwidth-demanding and latency-sensitive applications such as voice and video over Wi-Fi. The Zcomax ZN-7100-2DH-G is the ideal network solution for a variety of enterprise and hotspot environments including hotels, schools, retail outlets, branch offices and public venues.

Besides performing as a stand-alone access point, the ZN-7100-2DH-G can be centrally managed by Zcomax AP Controllers. This option provides centralized data traffic forwarding and local data forwarding, plus wireless network configuration, security encryption, network authentication, and user access policies.

Benefits

Outstanding mid-range performance at a competitive price
With 802.11n, 2x2 multiple-input multiple-output (MIMO) technology and dual-band radios, the ZN-7100-2DH-G sustains up to 600Mbps data rates over a greater range than the competition, all at an unprecedented price.

Twice the bandwidth, ideal for video streaming
The dual-band ZN-7100-2DH-G allows simultaneous operation at both 2.4GHz and 5GHz frequencies, providing twice the bandwidth for video streaming.

Smart RF management optimizes throughput and mitigates interference
The automatic channel selection and transmit output power adjustment optimize Wi-Fi client performance and ensure that APs stay clear of RF interference.

Flexible operating modes
The ZN-7100-2DH-G offers a variety of operating modes to meet your network management and deployment requirements. It can be flexibly deployed as a standalone wireless Access Point or as an Access Point managed by Zcomax AP controllers. Management provides automatically configuration, making deployment quick and easy.

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Increased efficiency and capacity

Spectrum Navigation directs dual-band traffic through the 5Ghz radio where it meets less interference and more available channels. Load balancing directs clients to less congested APs, distributing the load evenly.

Guaranteed multicast streaming

The only proven QoS system for IPTV, IGMP converts multicast traffic to unicast, delivering video traffic to each subscriber at the highest data rate they are capable of supporting.

Deployment is simple, and hassle-free

Support for 802.3at Power over Ethernet reduces deployment costs with easy installation and optimal location placement.
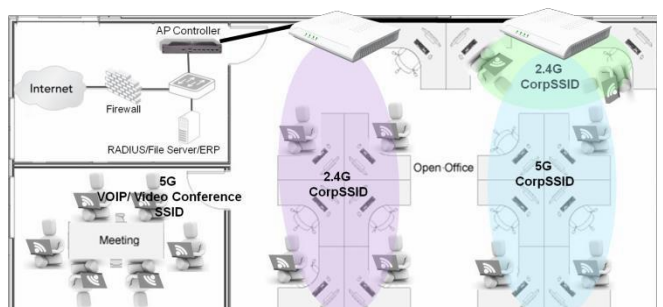
Sleek design, flexible Installation

Aesthetically-pleasing design with flexible mounting options (ceiling, wall, or desktop) perfectly suits indoor environments like offices, hotels, classrooms, etc. Internal antennas are optimized for superior RF performance.

Key Features

- Dual-band concurrent (2.4GHz/5GHz)
- One optical fiber interface for SFP module integration
- Multiple operating modes: managed AP (TAP) and standalone (FAP)
- Auto Channel Selection
- Auto Transmit Power Adjustment
- Data encryption: WEP, WPA-PSK, WPA2-PSK
- Authentication: 802.1x, WPA-Enterprise, WPA2-Enterprise
- Spectrum Navigation and Load Balancing
- Advanced QoS packet classification and automatic priority for latency-sensitive traffic
- IP multicast video streaming support
- Supports up to 16 BSSIDs
- 802.3at Power over Ethernet (PoE)
- 10/100/1000BASE-Tetherent port x1
- 4 internal antennas
- Destop, wall and ceiling mountable

DPLOYMENT FOR BRANCH OFFICES

DUAL BAND DEPLOYMENT

Specifications

WIRELESS

STANDARDS	• IEEE 802.11a/b/g/n • 2.4GHz and 5GHz
RADIO CHAINS	• 2x2 MIMO with two spatial streams
SUPPORTED DATA RATES	• 802.11b: 1, 2, 5.5, 11 • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 • 802.11n: MCS0 to MCS15 (6.5 Mbps to 300 Mbps per radio)
FREQUENCY BANDS	• 802.11 b/g/n: 2.4 – 2.484 GHz • 802.11a/n: 5.15 – 5.25 GHz; 5.25 – 5.35 GHz; 5.47 – 5.725 GHz; 5.725 – 5.85 GHz
OPERATING CHANNELS	• 2.4GHz – FCC 1-11; ETSI 1-13 • 5GHz – Country dependent
TRANSMIT OUTPUT POWER	• 2.4GHz - 25dBm (2TX) • 5GHz – 25dBm (2TX) Note: The maximum power setting will vary by channel and according to individual country regulations.
RECEIVER SENSITIVITY	• IEEE 802.11b/g/n: 11b: -76dBm @ 11Mbps 11g: -82dBm @6Mbps 11n: -82dBm @ HT20 -79dBm @ HT40 • IEEE 802.11a/n: 11a: -82dBm @ 6Mbps 11n: -82dBm @ HT20 -79dBm @ HT40
SECURITY	• 802.11i, WPA, WPA2 • 802.1X • WEP, WPA-TKIP), WPA2-AES

PHYSICAL

INTERFACES	•10/100/1000BASE-T x1 • DC power connector x1
POWER	• DC Input: 48 VDC • 802.3at Power over Ethernet
LED INDICATORS	• Power • WLAN • LAN
MOUNTING	• Desktop • Wall • Ceiling

ANTENNA

INTERNAL ANTENNA	• 2.4GHz - 5dBi PCB antennas*2 • 5GHz - 5dBi PCB antennas*2

MECHANICAL

DIMENTIONS	• 213 (L) mm x 170(D) mm x39 (H) mm
WEIGHT	• <500g

ENVIRONMENTAL

OPERATING	• Temperature: 0 ~ 50 ℃ • Humidity: 15 ~ 90% (non-condensing)
STORAGE	• Temperature: -10 ~55 ℃ • Humidity: 15 ~ 90%

MANAGEMENT

OPERATING MODES	• Controller-managed mode (TAP) • Standalone AP mode (FAP)
ACCESS METHOD	• Web User Interface (HTTP/S) • Telnet, SSH, SNMP
AUTO AP SOFTWARE UPDATES	• Remote auto through AP Controller available