



## Main Features

- Triple Radios and compliant with 2 x IEEE 802.11ac; 1 x IEEE 802.11 a/b/g/n 3 x 3 MIMO
- IEEE 802.3at Power over Ethernet
- Dual power redundancy (DC and PoE)
- 2 x Gigabit Ethernet WAN ports
- 4 x Gigabit Ethernet LAN ports
- Multiple function: AP/Repeater/WDS
- Operating temperature range from -40 to 80°C
- Central managed with access controller (IWF 8405 and IWF 3320C)

## Product Overview

IWF 3432XR is an enterprise-grade, concurrent dual-band IEEE 802.11ac 3x3 MIMO indoor access point, designed specifically for high-density environments such as offices, universities, hotels and hospitals. Featuring two 802.11ac radios and that supports up to 1.3Gbps for each radio and one 802.11 a/b/g/n 3x3 MIMO radios that can supports up to 450 Mbps data rate. IWF 3432XR is built to outperform wired connections crucial for business operations. Traffic prioritization ensures that band width hungry applications such as HD videos and stream perfectly, while enforcing strict quality of service requirements for VoIP and mission critical services.

In many large audience environments today, the proportion of 2.4GHz-only clients greatly outweighs clients capable of operating in the 5GHz band. Furthermore, many organizations wish to optimize the number of physical devices, as each device generates additional costs such as cabling and maintenance. Under these circumstances, the IWF 3432XR capability of having its radios service clients in different channels in different bands becomes essential for alleviation channel congestion and improving the overall wireless experience.

The IWF 3432XR exterior is a plenum-rated, dust-proof metal housing that is extremely sturdy and flexible to deploy. With a built-in mounting mechanism, the IWF 3432XR can be placed on regular flat surfaces such as tabletops, or mounted on walls and other vertical surfaces, the nine external, dual-band antenna are adjustable and replaceable, allowing wireless coverage to be optimized for each deployment scenario. Combined with support for data and PoE failover that offers redundancy, the IWF 3432XR offers unparalleled deployment flexibility and reliability.

When used with NEXCOM IWF 8405 and IWF 3320C controllers, the IWF 3432XR supports a wide-array of value added applications required by enterprises and organizations, such as bandwidth control, user authentication and billing, centralized WLAN management, and much more. Along with stringent yet customizable security policies, the flexible and fully-featured IWF 3432XR becomes the ideal choice for all types of businesses, from small shops to large corporations.

## Specifications

### Wireless Radio

- 2 x IEEE 802.11ac 3 x 3 MIMO
- 1 x IEEE 802.11 a/b/g/n 3 x 3 MIMO

### Frequency Ranges

- USA : 2.400 ~ 2.483 GHz, 5.15 ~ 5.35 GHz, 5.5 ~ 5.7 GHz, 5.725 ~ 5.825 GHz
- Europe: 2.400 ~ 2.483 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
- Japan: 2.400 ~ 2.497 GHz, 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
- China: 2.400 ~ 2.483 GHz, 5.725 ~ 5.85 GHz

### RF Output Power: IEEE 802.11ac

- IEEE802.11a
  - (1) 20dBm@6M

- (2) 20dBm@54M
- IEEE802.11a/n HT20
  - (1) 20dBm@MCS0
  - (2) 18dBm@MCS7
  - (3) 16dBm@MCS8 in VHT20
- IEEE802.11a/n HT40
  - (1) 20dBm@MCS0
  - (2) 18dBm@MCS7
  - (3) 16dBm@MCS8 in VHT40
- IEEE802.11ac VHT 80Mhz
  - (1) 20dBm@MCS0
  - (2) 18dBm@MCS7
  - (3) 16dBm@MCS8

## RF Output Power: IEEE 802.11 a/b/g/n

- IEEE802.11a
  - (1) 17dBm@6M
  - (2) 15dBm@54M
- IEEE802.11b
  - (1) 18dBm@1M
  - (2) 18dBm@11M
- IEEE802.11g
  - (1) 19dBm@6M
  - (2) 17dBm@54M
- IEEE802.11a/n HT20
  - (1) 17dBm@MCS0/8
  - (2) 9dBm@MCS7/15
- IEEE802.11a/n HT40
  - (1) 16dBm@MCS0/8
  - (2) 9dBm@MCS7/15
- IEEE802.11g/n HT20
  - (1) 19 dBm@MCS0/8
  - (2) 13dBm@MCS7/15
- IEEE802.11g/n HT40
  - (1) 17dBm@MCS0/8
  - (2) 13dBm@MCS7/15

## Receive Sensitivity : IEEE 802.11ac

- IEEE802.11a
  - (1) -95dBm@6M
  - (2) -80dBm@54M
- IEEE802.11a/n HT20
  - (1) -95dBm@MCS0
  - (2) -76dBm@MCS7
  - (3) -72dBm@MCS8 in VHT20
- IEEE802.11a/n HT40
  - (1) -92dBm@MCS0
  - (2) -75dBm@MCS7
  - (3) -71dBm@MCS8 in VHT40
- IEEE802.11ac VHT 80MHz
  - (1) -90dBm@MCS0
  - (2) -72dBm@MCS7
  - (3) -68dBm@MCS8

## Receive Sensitivity : IEEE 802.11a/b/g/n 2Rx

- IEEE802.11a
  - (1) -94dBm@6M
  - (2) -77dBm@54M
- IEEE802.11b
  - (1) -93dBm@1M
  - (2) -91dBm@11M
- IEEE802.11g
  - (1) -94dBm@6M
  - (2) -80dBm@54M
- IEEE802.11a/n HT20
  - (1) -93dBm@MCS0/8
  - (2) -74dBm@MCS7/15
- IEEE802.11a/n HT40
  - (1) -90dBm@MCS0/8
  - (2) -72dBm@MCS7/15
- IEEE802.11g/n HT20
  - (1) -94dBm@MCS0/8
  - (2) -77dBm@MCS7/15
- IEEE802.11g/n HT40
  - (1) -89dBm@MCS0/8
  - (2) -73dBm@MCS7/15

## IGMP Snooping

### Proxy ARP

### Hardware

- WAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 2
- LAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 4
- Compliant with :
  - (1) IEEE802.3/802.3u
  - (2) Hardware based 10/100/1000, full/half, flow control auto negotiation

- Console Port: 1 x DB9
- Push buttons: 1 x Reset; 3 x WES
- LED: 1 x Power; 1x Status; 3 x WLAN; 3 x WES
- Dual Band Antenna: 9 with RP-SMA connectors

## Security

- WEP (64/128/152)
- EAP-TLS + Dynamic WEP
- EAP-TTLS + Dynamic WEP
- PEAP/MS-PEAP + Dynamic WEP
- WAP/WPA2 Mixed
- WPA2-Personal (PSK+CCMP/AES)
- WPA2- Enterprise (802.1X certification)
- TKIP and AES Encryption
- Setting For TKIP/CCMP/AES key's refreshing period
- Hidden ESSID support
- MAC address filtering (MAC ACL)
- MAC authentication with RADIUS servers
- DHCP Snooping
- Layer 2 firewall
- Station Isolation

## System Management

- Web-based administration
- SNMP V1/V2c
- Provides Event Log
- SYSLOG information support
- Statistics
- Configuration backup and restore
- One-button-click to restore factory default setting
- Firmware upgrade
- Capable of performing RADIUS Accounting and Accounting update
- WES
- Support Tunneled AP management with NEXCOM controller
- Ethernet LAN port Mapping (with NEXCOM controller)

## Built-in Servers & Client Interfaces to Other Services

- DHCP client
- DNS client
- SYSLOG client
- RADIUS client
- SNMP v1/v2c client

## Physical and Power

- IEEE 802.3at Power over Ethernet
- 12~48VDC with terminal block
- DC and PoE power redundancy
- Wall mountable
- Dimension (L x W x H): 245 x 192 x 40 mm
- Weight: 1.64 kg

## Environment Protection

- Operating temperature: -40 to 80°C
- Storage temperature: -40 to 80°C
- Humidity: 0% to 95% maximum (Non-condensing)
- Vibration: Random 0.3g

## Certification

- FCC
- CE

## RoHS compliant

- EN50155 compliant
- Package Contents
  - IWF 3432XR unit x 1
  - Terminal block DC connector x 1
  - Dual band antenna x 9
  - Ethernet cable x 1
  - Wall-mount kit x 1
  - AC-DC power adaptor x 1

## Ordering Information

- IWF 3432XR (P/N: TBD)