

# 900Mbps Indoor Wireless Dual-Band Smart Base Station

## WIS-A790UFO

 **MRF™**  
9x9 antenna array

 **256**  
concurrent users

 **2.4**GHz 

 **5**GHz 



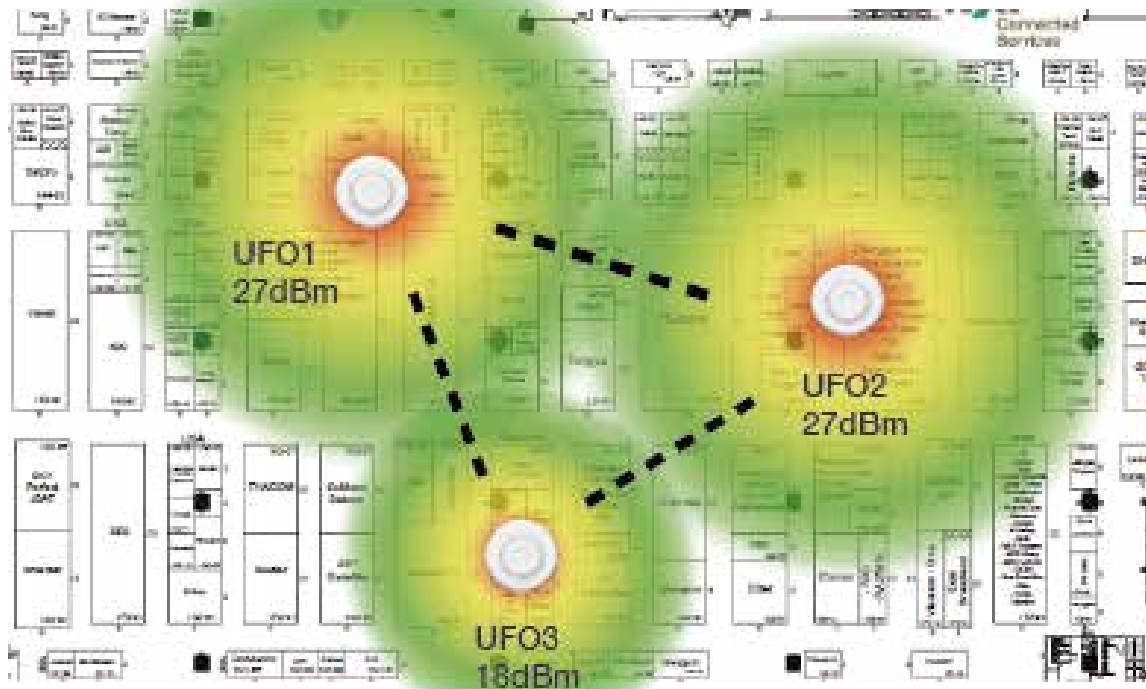
## Product Overview

The WIS-A790UFO series is an advanced Gigabit indoor Wi-Fi smart base stations operating in the 2.4GHz and 5GHz bands and can provide maximum 1.8Gbps wireless speed. Wisnetworks base stations use the unique MRF MIMO technology, combined advanced Beamforming, MRC, STBC channel codec technology with 802.11n to deliver extensive range and capacity. The innovatory multi-radio technology and sector smart antenna-array design boost the WiFi signals thus increasing the effective coverage up to 3-5 times better than traditional WLAN base stations. The high-end 800MHz freescale CPU and up to 1GB RAM help to handle more than 256 users with a single base station, and save the cost for network deployment.

## Features and Benefits

- 802.11b/g/n, 9\*9, maximum 450Mbps for data coverage
- 802.11an, 3\*3, maximum 450Mbps for high speed video and voice streaming
- MRF smart antenna array helps extend 5X of the coverage range
- Beamforming technology improves the link throughput and stability
- Support 2\*10/100/1000Mbps RJ45 Ports
- Support 1\*1000Mbps SFP Port
- TX power 5-27dBm adjustable
- Support 48-56V 802.3af/at PoE+
- Support radius for hotspot
- Support up to 64 multiple SSID
- Support VLAN division with wired port and wireless ssid
- Selectable quick deployment kits
- Available to handle more than 256 concurrent users

## Network Example



## Specification

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### > Radio

- 802.11b/g/n radio (Atheros)
  - Flash 32MB, RAM 1GB
  - Speed up to 1.8 Gbps
  - Frequency Range: 2.4-2.4835GHz  
5.15-5.850GHz
  - Tx Power up to 27dBm
  - Rx Sensitivity : -79dBm@MCS7  
-97dBm@11Mbps  
-105dBm@1Mbps
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### > Antenna

- 2.4GHz 9\*9 8dBi 120deg Sector Antennas Array
  - 5GHz 3\*3 8dBi 120deg Sector Antennas Array
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### >Physical Parameters

- Dimension: φ400\*90mm
  - Weight: 2.5kg
  - Enclosure: Fireproofing Industrial ABS
  - Ceiling/Tripod Mounting
  - Working Temp: -20~60°C
  - Storage Temp: -40~75°C
  - Working Humidity: 10%~95% non-condensing
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### > Power

- 48~56VDC PoE
  - Power Consumption: 45W
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### >Security

- Integrated Firewall
- WPA/WPA2;WPA-PSK/WPA2-PSK (AES/TKIP)  
Encryption; 64/128-bit WEP;
- Broadcast storm filtering
- RADIUS client

### > Networking

- Channel Isolation/User Load Balance
  - Multiple ESSID&BSSID
  - 802.1q VLAN
  - QoS: Bandwidth Control and 802.11e/WMM
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### >Management

- CLI control, Telnet/SSH CLI
  - SNMP v2 (NMS)
  - Remote software upgrade
  - FTP/TFTP/Web management
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### >Protection

- ESD Protection: 15kV
  - Lightning Protection: 8kV
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### >Warranty

- 2 Year
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### >Certification

- CE, RoHS
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### >Package content

- WIS-A790UFO Base Station
- PoE Injector
- Power Cord
- Ceiling Mounting kits (selectable)
- Tripod/Suitcase (selectable)