

# IWF 503 Series

IP55 Outdoor AP/CPE Single Radio Single Band, 802.11 ac/an/a



IWF 503



IWF 503D

## Main Features

- AP/Client bridge/AP router/Client router/WDS mode supported
- Compliant with IEEE 802.11 ac/a/n 3x3 MIMO
- 1300 Mbps data rate
- 24VDC PoE input
- 1 WAN+1 LAN ports GbE Ethernet RJ45
- WEP, WPA, WPA2
- Operating temperature range from -35 to 75°C
- FCC/CE certification

## Product Overview

IWF 503 is an IP55 outdoor cost effective AP/CPE router. IWF 503 is single radio AP/CPE with IEEE802.11ac/an/a 3x3 MIMO with high RF power solution. The maximum data rate up to 1.3Gbps with two SKUs for internal patch antenna (IWF 503) and external antenna (IWF 503D) by customer selectable for high gain in long distance transmission. IWF 503 also design as high power solution, up to 27dBm in 5GHz.

## Specifications

### Wireless Radio

- 1 x IEEE 802.11ac/an/a 3x3 MIMO

### Frequency Ranges

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

\* Note: The available frequency range may be different according to different certification.

### RF Output Power: IEEE 802.11ac ( $\pm 2$ dBm)

- IEEE802.11a
  - 27dBm@6M
  - 25dBm@54M
- IEEE802.11ac/n HT20
  - 25dBm@MCS0
  - 23dBm@MCS9
- IEEE802.11ac/n HT40
  - 25dBm@MCS0
  - 23dBm@MCS9
- IEEE802.11ac/n HT80
  - 25dBm@MCS0
  - 23dBm@MCS9

### Receive Sensitivity: IEEE 802.11ac

- IEEE802.11a
  - -95dBm@6M
  - -77dBm@54M

- IEEE802.11ac/n HT20
  - -82dBm@MCS0
  - -71dBm@MCS7
  - -70dBm@MCS8
- IEEE802.11ac/n HT40
  - -92dBm@MCS0
  - -72dBm@MCS7
  - -66dBm@MCS9
- IEEE802.11ac/n HT80
  - -88dBm@MCS0
  - -68dBm@MCS7
  - -62dBm@MCS9

### Hardware

- WAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 1
- LAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 1
- Compliant with
  - IEEE802.3/802.3u
  - Hardware Based 10/100/1000, full/half, flow control auto negotiation
- Push buttons: 1 x reset
- LED: 1 x Power & Status; 1 x WAN; 1 x Wi-Fi
- SMA: 3 x with RP-SMA connectors

### Operating Mode

- AP
- Client bridge
- AP router
- Client router
- WDS

### Security

- ♦ WEP (64/128/152)
- ♦ WAP/WPA2 mixed
- ♦ WPA2-personal (PSK+CCMP/AES)
- ♦ WPA2- enterprise (802.1X certification)
- ♦ Hidden ESSID support
- ♦ MAC address filtering (MAC ACL)
- ♦ 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
- ♦ WES

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

- ♦ DHCP client
- ♦ SNMP V1/V2c client

### Physical and Power

- ♦ 24VDC passive PoE
- ♦ Wall/Pole mountable
- ♦ Dimension: 240x135x58 mm
- ♦ Weight: TBD

### Environment Protection

- ♦ Operating temperature: -35~75°C
- ♦ Storage temperature: -40~80°C
- ♦ Humidity: 0% to 95% maximum (non-condensing)
- ♦ Vibration: random 0.3g

### Certification

- ♦ FCC
- ♦ CE
- ♦ RoHS compliant

### Package Contents

- ♦ IWF 503 unit x 1
- ♦ 24V PoE injector
- ♦ Steel clamps\* 2 for pole mount
- ♦ QIG

## Ordering Information

- ♦ **IWF 503-EU (P/N: 10T00050300X0)**
- ♦ **IWF 503-US (P/N: 10T00050301X0)**  
IEEE 802.11 ac/an/a with built-in 10dBi directional antennas
- ♦ **IWF 503D-EU (P/N: 10T00050302X0)**
- ♦ **IWF 503D-US (P/N: 10T00050303X0)**  
IEEE 802.11 ac/an/a with SMA connectors to supports users choice of external antennas

\* Note: The available RF output power will be given by certified power in different regions.