



## Main Features

- Dual radios and compliant with 1x 802.11an+1x 802.11 b/g/n 2x2 MIMO
- 1+4 port GbE RJ45 ports
- Up to 27dBm High RF power
- Multiple functions: AP/Router/EZ MESH
- Support 12V DC input
- Support -40 ~ 80°C extended operating temperature

## Product Overview

IWF 310 is QCA9344-based rugged industrial-grade AP/Router/EZ MESH AP designed with Aluminum and Metal Chassis, and IEEE802.11b/g/n 2x2 MIMO and IEEE802.11an/a 2x2 MIMO technology. IWF 310 can deliver data rate up to 300Mbps/each radio. In addition, the Radio power can be up to 27dBm for wide range coverage and service. IWF 310 also functions as EZ MESH network Wi-Fi access with cost-effective option.

## Specifications

### Wireless Radio

- 1x IEEE 802.11an 2x2 MIMO
- 1x IEEE 802.11 b/g/n 2x2 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 802.11an(±2dBm)

- IEEE802.11a
  - 12dBm@54M
- IEEE802.11a/n HT20
  - 12dBm@MCS7
- IEEE802.11a/n HT40
  - 11dBm@MCS7

### RF Output Power : IEEE 802.11 b/g/n(±2dBm)

- IEEE802.11b
  - 27dBm@1M
  - 24dBm@11M
- IEEE802.11g
  - 27dBm@6M
  - 24dBm@54M
- IEEE802.11g/n HT20
  - 23dBm@MCS0/8
  - 19dBm@MCS7/15
- IEEE802.11g/n HT40

- 22dBm@MCS0/8
- 18dBm@MCS7/15

### Receive Sensitivity : IEEE 802.11an

- IEEE802.11a
  - -76dBm@54M
- IEEE802.11a/n HT20
  - -74dBm@MCS7
- IEEE802.11a/n HT40
  - -71dBm@MCS7

### Receive Sensitivity : IEEE 802.11 b/g/n

- IEEE802.11b
  - -93dBm@1M
  - -91dBm@11M
- IEEE802.11g
  - -94dBm@6M
  - -80dBm@54M
- IEEE802.11g/n HT20
  - -94dBm@MCS0/8
  - -77dBm@MCS7/15
- IEEE802.11g/n HT40
  - -89dBm@MCS0/8
  - -73dBm@MCS7/15

### Hardware

- WAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 1
- LAN: 10/100/1000 Base-TX MDI/MDIX RJ-45 x 4
- Compliant with :

- IEEE802.3 / 802.3u
- Hardware based 10/100/1000, full/half, flow control auto negotiation
- Push buttons: 1x Reset
- LED: 1x power& status; 5x Ethernet
- Antenna connectors: 2x with RP-SMA

#### **Operating Mode**

- AP
- AP router
- Client router
- EZ mesh

#### **Security**

- WEP(64/128)
- WPA/WPA2 Mixed
- WPA2-personal (PSK+CCMP/AES)
- Hidden ESSID support
- MAC address filtering (MAC ACL)

#### **System Management**

- Web-based administration
- SNMP V1/V2c (Coming Soon)
- SYSLOG information support
- Statistics
- Configuration backup and restore
- One-button-click to restore factory default setting
- Firmware upgrade

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

- DHCP client
- SNMP v1/v2c client(coming soon)

#### **Physical and Power**

- 12VDC power input with DC jack
- Wall mountable
- Dimension: 185 x 108 x 43 mm

#### **Environment Protection**

- Operating temperature: -40~80°C
- Storage temperature: -45~85°C
- Humidity: 0% to 95% maximum (Non-condensing)
- Vibration: Random 0.3g

#### **Certification**

- FCC
- CE
- RoHS compliant
- EN50155 compliant

#### **Package Contents**

- IWF310 unit x1
- Dual band antenna x2
- Ethernet cable x1
- Wall-mount kit x1
- AC-DC power adaptor x1