



## Main Features

- Dual radios and compliant with 1 x 802.11an+1 x 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

- 1 x IEEE 802.11an 2x2 MIMO
- 1 x 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

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

### RF Output Power: IEEE 802.11an (±2dBm)

- IEEE802.11a
  - 27dBm@54M
- IEEE802.11a/n HT20
  - 25dBm@MCS7
- IEEE802.11a/n HT40
  - 24dBm@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: 1 x reset
- ♦ LED: 1 x Power & Status; 5 x Ethernet
- ♦ Antenna connectors: 2 x 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

#### Package Contents

- ♦ IWF310 unit x 1
- ♦ Dual band antenna x 2
- ♦ Wall-mount kit x 1
- ♦ AC-DC power adaptor x 1

## Ordering Information

- ♦ IWF 310-US (P/N: 10T00031001X0)
- ♦ IWF 310-EU (P/N: 10T00031000X0)

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