



Main Features

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

Product Overview

IWF300 is QCA9344-based industrial-grade AP/CPE/Router/EZ MESH AP designed with IEEE802.11a/b/g/n 2x2 MIMO and IEEE802.11ac/an/a 2x2 MIMO technology. IWF300 can deliver data rate up to 1.16Gbps. In addition, the Radio power can be up to 27dBm for wide range coverage and service. IWF300 also functions as EZ MESH network Wi-Fi access with cost-effective option and providing 60km/hr roaming technology.

Specifications

Wireless Radio

- 1x IEEE 802.11ac 2x2 MIMO
- 1x IEEE 802.11 a/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 802.11ac

- IEEE802.11a
 - 18dBm@6M
 - 15dBm@54M
- IEEE802.11ac/n HT20
 - 18dBm@MCS0
 - 13dBm@MCS7
 - 15dBm@MCS8 in VHT20
- IEEE802.11ac/n HT40
 - 18dBm@MCS0
 - 12dBm@MCS7
 - 12dBm@MCS8 in VHT40

- IEEE802.11ac VHT 80Mhz
 - 18dBm@MCS0
 - 11dBm@MCS7
 - 10dBm@MCS8

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

- IEEE802.11a
 - 24dBm@6M
 - 21dBm@54M
- IEEE802.11b
 - 27dBm@1M
 - 24dBm@11M
- IEEE802.11g
 - 27dBm@6M
 - 24dBm@54M
- IEEE802.11a/n HT20
 - 21dBm@MCS0/8
 - 19dBm@MCS7/15
- IEEE802.11a/n HT40
 - 20dBm@MCS0/8
 - 18dBm@MCS7/15

- IEEE802.11g/n HT20
 - 23dBm@MCS0/8
 - 19dBm@MCS7/15
- IEEE802.11g/n HT40
 - 22dBm@MCS0/8
 - 18dBm@MCS7/15

Receive Sensitivity: IEEE 802.11ac

- IEEE802.11a
 - -82dBm@6M
 - -65dBm@54M
- IEEE802.11a/n HT20
 - -82dBm@MCS0
 - -64dBm@MCS7
 - -59dBm@MCS8 in VHT20
- IEEE802.11a/n HT40
 - -79dBm@MCS0
 - -61dBm@MCS7
 - -54dBm@MCS8 in VHT40
- IEEE802.11ac VHT 80MHz
 - -76dBm@MCS0
 - -51dBm@MCS7
 - -51dBm@MCS8

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

- IEEE802.11a
 - -94dBm@6M
 - -77dBm@54M
- IEEE802.11b
 - -93dBm@1M
 - -91dBm@11M
- IEEE802.11g
 - -94dBm@6M
 - -80dBm@54M
- IEEE802.11a/n HT20
 - -93dBm@MCS0/8
 - -74dBm@MCS7/15
- IEEE802.11a/n HT40
 - -90dBm@MCS0/8
 - -72dBm@MCS7/15
- 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; 1x WES
- LED: 1 x power& status; 5 x RJ45; 1 x WES
- Dual band antenna: 2x with RP-SMA connectors

Operating Mode

- AP
- Client bridge
- AP router
- Client router
- WDS
- EZ mesh (at 802.11ac, 5GHz)

Security

- WEP(64/128)
- 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
- 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

- 12VDC power input
- Wall mountable
- Dimension: 205 x 105 x 25 mm
- Weight: TBD

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

- IWF300 unit x 1
- Dual band antenna x 2
- Ethernet cable x 1
- Wall-mount kit x 1
- AC-DC power adaptor x 1

* Note:

The available RF output power will be given by certified power in different region

Ordering Information

- IWF 300 (P/N: TBD)