IWF 504D

Main Features

- AP/Client bridge router/Client router/WDS mode supported
- Compliant with IEEE 802.11 ac+b/g/n 2x2 MIMO
- 867+300 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 504D is an IP55 outdoor cost effective AP/CPE router. IWF 504D is dual radios AP/CPE with IEEE802.11ac+b/g/n 2x2 MIMO with high RF power solution. The maximum data rate up to 867+300Mbps with external antenna which by customer selectable for high gain in long distance transmission. IWF 504D also design as high power solution, up to 27dBm in both 2.4GHz and 5GHz.

Specifications

Wireless Radio

- 1 x IEEE 802.11ac 2x2 MIMO
- 1 x IEEE 802.11b/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/an/a (±2dBm)

- IEEE802.11a
  - 27dBm@6M
  - 24dBm@54M
- IEEE802.11a/n HT20
  - 27dBm@MCS0
  - 24dBm@MCS7
  - 23dBm@MCS8 in VHT20
- IEEE802.11a/n HT40
  - 26dBm@MCS0
  - 23dBm@MCS7
  - 22dBm@MCS8 in VHT40
- IEEE802.11ac VHT 80Mhz
  - 24dBm@MCS0
  - 22dBm@MCS7
  - 21dBm@MCS8

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 802.11ac/an/a

- IEEE802.11a
  - -95dBm@6M
  - -80dBm@54M
- IEEE802.11a/n HT20
  - -95dBm@MCS0
  - -76dBm@MCS7
  - -72dBm@MCS8 in VHT20
- IEEE802.11a/n HT40
  - -92dBm@MCS0
  - -75dBm@MCS7
  - -71dBm@MCS8 in VHT40

- IEEE802.11ac VHT 80Mhz
  - -90dBm@MCS0
  - -72dBm@MCS7
  - -68dBm@MCS8

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 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: 4 x with RP-SMA connectors

Operating Mode

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

Security

- WEP
- WAP/WPA2 mixed
- WPA2-personal (PSK+CCMP/AES)
- Hidden ESSID support
- MAC address filtering (MAC ACL)
- Station isolation

System Management

- Web-based administration
- SNMP V1/V2c; NEXCOM private MIB
- SYSLOG information support
- Statistics
- Configuration backup and restore
- One-button-click to restore factory default setting
- Firmware upgrade
- Telnet (SSH)
- Support nCare management system

Built-in Servers & Client Interfaces to Other Services

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

Physical and Power

- 12~24VDC passive PoE
- Wall/Pole mountable
- Dimension: 240 x 135 x 58 mm
- Weight: 442g

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 504D unit x 1
- 24V PoE injector
- Steel clamps*2 for pole mount
- QIG

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

Ordering Information

- **IWF 504D-EU (P/N: 10T00504D00X0)**
- **IWF 504D-US (P/N: 10T00504D01X0)**