IWF 5320

Industrial IP68 Outdoor Access Point
Dual RF, Dual Band, 802.11 a/b/g/n

Main Features

- Concurrent IEEE802.11 a/b/g/n for transmission rate up to 2 x 300Mbp
- Dual Gigabit Ethernet with one standard IEEE 802.3af PoE
- Weatherproof IP68 rated metal housing with -20 to +70°C operating temperature
- Multiple Virtual APs for grouping policy management
- Industrial grade conformal coating for harsh environment
- The layer-2 Wireless Firewall gives protection from wireless attacks
- Comprehensive WLAN security encryption with WEP, WPA/WPA2, IEEE 802.1X or PSK
- Tunnel-based AP management by backend AP controller

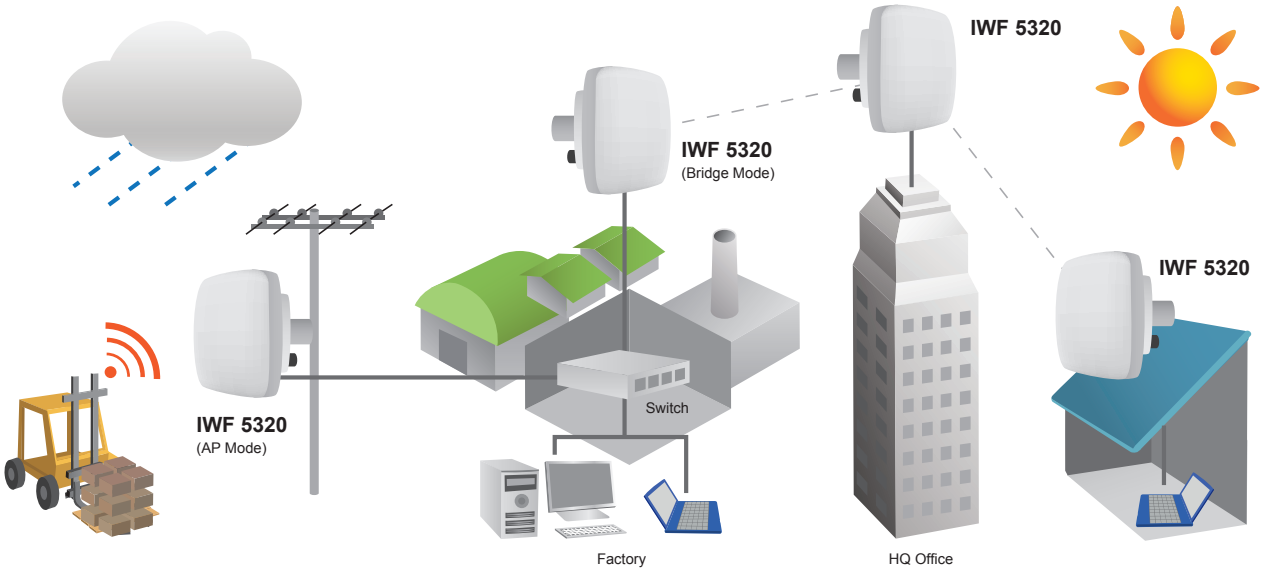
Product Overview

The IWF 5320 is a dual radio Wi-Fi 802.11a/b/g/n outdoor device for long range wireless transmission. Its rugged IP68-rated metal housing is weatherproof, watertight and rust-resistant, making it an ideal solution for deployments in harsh conditions, such as outdoor or industrial environments.

When in AP mode, IWF 5320 operates as an AP station with wall-penetrating high-power signal and long-range coverage to better serve Wi-Fi clients. In addition, it can be set up as a WDS-mesh node by establishing multiple WDS links to bridge neighbor access points together.

Coming with business-class security, IWF 5320 in AP mode is also ideal for industrial applications. Furthermore, one IWF 5320 with multiple SSIDs is capable of acting as multiple Virtual APs (VAPs). By tagging the traffic from each VAP with a unique VLAN ID, it allows for segmenting a corporate network using VLANs to protect critical resources.

Being a versatile Wi-Fi device, IWF 5320 does not limit itself to outdoor usage only. When managed by a NEXCOM Controller (such as the IWF 8405), it performs as a Wi-Fi base station in either a public or private wireless access deployment.



Specifications

Wireless Radio

- Wireless Interface: 2 x IEEE 802.11 a/b/g/n
- Frequency band: 2.4 GHz and 5 GHz
- Wireless architecture:
  (1) AP mode
  (2) WDS mode (Repeater/Bridge)
- Modulation:
  (1) OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  (2) DSSS (CCK, DBPSK, DQPSK)
- Channels:
  (1) USA (Channel 1~11)
  (2) Europe (Channel 1~13)
  (3) Japan (Channel 1~13)
- Data rate with auto fallback:
  (1) 802.11a: 6~54 Mbps
  (2) 802.11b: 1~11 Mbps
  (3) 802.11g: 6~54 Mbps
  (4) 802.11n: 6.5~300Mbps
- Transmit Power:
  (1) 802.11a: Up to 22dBm
  (2) 802.11b: Up to 22dBm
  (3) 802.11g: Up to 24dBm
  (4) 802.11an: Up to 22dBm
  (5) 802.11gn: Up to 22dBm
- Receiver Sensitivity:
  (1) 802.11a: -95dBm@6Mbps
  (2) 802.11b: -95dBm@1Mbps
  (3) 802.11g: -95dBm@6Mbps
  (4) 802.11an HT20: -95dBm@MCS0
  (5) 802.11an HT40: -91dBm@MCS0
  (6) 802.11gn HT20: -95dBm@MCS0
  (7) 802.11gn HT20: -90dBm@MCS0

Protocol & QoS Support

- IGMP Snooping
- Proxy ARP
- SNMP v1/v2c
- CAWAP
- DHCP client
- SYSLOG client
- RADIUS client
- IPv6
- DiffServ/TOS
- IEEE 802.1p/COS
- IEEE 802.1Q Tag VLAN priority control
- IEEE 802.11e WMM
- IEEE 802.1D Spanning Tree Protocol

Handover & Roaming

- IEEE 802.11i pre-auth (PMKSA cache)

Security

- Supports IEEE 802.11 mixed mode; open and shared key authentication
- Data encryption with WEP (64/128/152-bits)
- User Authentication: WEP, IEEE 802.1X, WPA-PSK, WPA-RADIUS, MAC ACL, MAC authentication using RADIUS with built-in 802.1X Authenticator
- WPA/WPA2 with TKIP or AES-CCMP with key's refreshing period setting
- Hidden ESSID: Broadcast SSID enable/disable
- MAC Address filtering (MAC ACL)
- Maximum number of registered RADIUS servers: 2
- Supports AES data encryption over WDS link
- Station Isolation: All associated stations can not communicate with each other when enabled
- Build-in Layer 2 Firewall, blocking Dynamic ARP Inspection & DHCP Snooping

System Administration

- Web-based adMinistration
- SNMP MIBII support (v1/v2c)
- Provides Event Log
- Supports System Log reporting to external SYSLOG server
- Utilities for system configuration backup and restoration
- Firmware upgrade
- Support Tunneled AP Management with NEXCOM Secure WLAN Controllers

Wireless Signal Management

- Number of ESSIDs (Virtual APs): 16
- Number of associated clients: 256

Hardware Specifications

- IP68 water-proof metal case
- Industrial grade conformal coating for anti-erosion and anti-moisture
- Uplink Port: 1 × 10/100/1000 Base-T Ethernet with IEEE 802.3af PoE
- LAN Port: 1 × 10/100/1000 Base-T Ethernet
- Console Port: 1× RJ45
- Antenna: 4 x N-type (Female) connector

Physical and Power

- Support IEEE 802.3af PoE as a PD
- Form Factor: Pole Mountable
- Dimensions (W x D x H): 240 x 230 x 130mm (9.5" x 9.1" x 5.2")
- Weight: 5.3lbs (2.4 kg)

Environment Protection

- Operation Temperature: -20 to +70°C (-22 to 158°F)
- Storage Temperature: -40 to +85°C (-40 to 185°F)
- Operation Humidity: 0% to95% maximum (Non-condensing)
- Vibration: Random 0.3g

Certifications

- FCC, CE
- RoHS compliant

Package Contents

- IWF 5320 x1
- CD-ROM (with User's Manual and QIG) x1
- PSE (POE30G) with power cord x1
- Mounting Kits x1

Ordering Information

- **IWF 5320-US (P/N: 10T00532000x0)**
- **IWF 5320-EU (P/N: 10T00532001x0)**
- **IWF 5320-JP (P/N: 10T00532002x0)**

Wireless Accessories

- **Outdoor omni-directional antenna 2.4~2.5GHz 8dBi (P/N: 603ANT0008X00)**
- **Outdoor directional antenna 5.1-5.9GHz 15dBi (P/N: 603ANT0013X00)**
- **Arrester DC-6 GHz N-MALE TO N-FEMALE (P/N: 7A00000066X00)**
- **Low Loss Cable, LC-CFD400L1, Length = 1M (P/N: 6023300106X00)**