

# IWF 5320P

Industrial 5KM Outdoor P2P Solution  
5GHz, Dual RF, 200Mbps at 5KM Distance



## Main Features

- Dual-radio IEEE 802.11a/b/g/n aggregation, MIMO architecture and proprietary technology supports data rates up to 600 Mbps
- 200Mbps at 5KM distance with 23dbi antenna
- Double physical protection by IP-68 die-casting housing and PCBA conformal coating
- GbE WAN port with IEEE 802.3af PoE and one GbE LAN port
- Equipped with IEEE 802.11Q tag VLAN, IEEE 802.1p/CoS, and DiffServ/ToS
- Enterprise-grade security with 256 bit AES data encryption to ensure secure data transmission
- Supports IEEE 802.11e WMM to fulfill bandwidth hungry triple-play (voice/video/data) applications
- Simple and straightforward link setup shortens installation time and decreases deployment cost

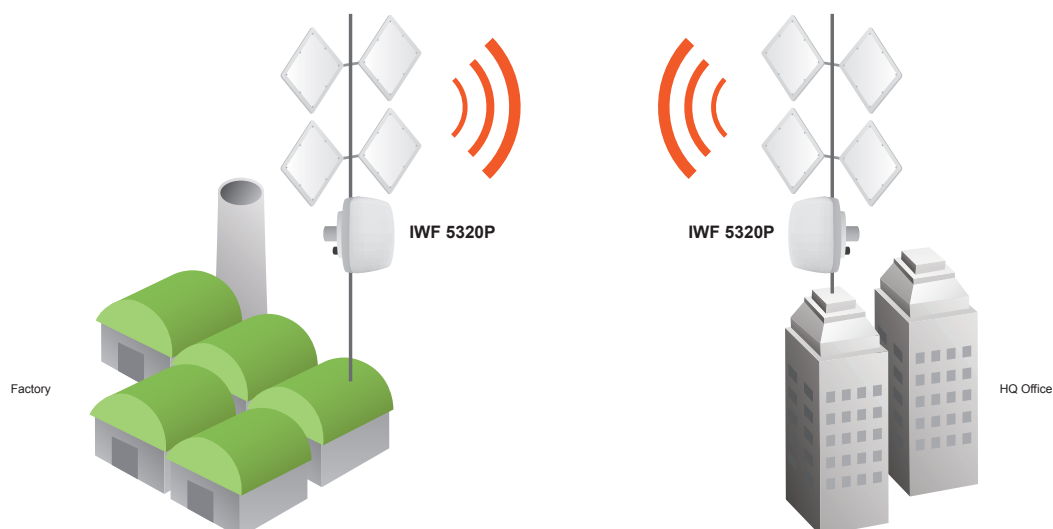
## Product Overview

IWF 5320P is the industry's first high speed outdoor point-to-point wireless bridge that aggregates dual-radio's throughput for one link, unleashes the true potential of 802.11n and MIMO technology, delivers real throughput up to 400 Mbps (UCP) in the license-exempt 5 GHz frequency band. Remote locations where physical cabling is not possible can now experience the high throughput and low latency connectivity with IWF 5320P. With 23dbi patch antenna, the system is capable to deliver 200Mbps at 5KM distance.

To support the bandwidth hungry triple-play (voice/video/data) applications, IWF 5320P implements the IEEE 802.11e based WMM function for 4 access categories QoS. Although the system delivers your valuable data over a very long distance over the public air, the wireless data link is protected by enterprise-grade security with 256 bit AES data encryption to ensure secured data transmission so user is free from eavesdropping.

Housed in a die-casting rugged IP-68 casing and conformal coating, IWF 5320P is designed to withstand most extreme climatic conditions, making it the ideal solution for outdoor P2P applications. IWF 5320P also provides optional surge arrestor that protects against electrostatics induced by local lightning strikes.

IWF 5320P P2P Pack is the all-in-one package program that customer can get everything needs for bring up the system – A pair of IWF 5320P and eight sets of RF accessory: 23dbi patch antenna, 2 meters low loss cable, and surge arrestor.



## Specifications

### Wireless Radio

- Wireless Standard: IEEE 802.11n
  - (1) Available Frequency Bands: 5 GHz (802.11an)
  - (2) Operating Channels: 36,40,44,48,149~165
- Channel Width:
  - (1) 20 MHz
  - (2) 40 MHz
- Transmit Power: Up to 22 dBm
- Modulation:
  - (1) OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  - (2) DSSS (CCK, DBPSK, DQPSK)
- Receiver Sensitivity:
  - (1) 802.11an HT20: -73 dBm @ MCS15
  - (2) 802.11an HT40: -70 dBm @ MCS15

### Performance

- Real Throughput (UDP): Up to 400 Mbps (maximum)
- Recommended Link Distance: 5 km
- \* Environmental factors and configuration parameters may affect link performance

### QoS-WMM

- DiffServ/TOS
- IEEE 802.1p/COS
- IEEE 802.1Q Tag VLAN priority control
- IEEE 802.11e WMM

### Security

- Supports AES-256 bit data encryption over wireless link

### 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
- NTP time synchronization
- Supports IPv6

### Hardware Specification

- IP-68 weather-proof metal case
- 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 × RJ-45
- Antenna: 4 × N-type 23 dBi Directional Panel Antenna

### Physical and Power

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

### Environment

- Operation Temperature: -20 ~ + 70 °C
- Storage Temperature: -40 ~ + 85 °C
- Operation Humidity: 0 ~ 95% maximum (Non-condensing)

### Certifications

- FCC, CE
- RoHS compliant

### Package Content

- IWF5320P
- CD-ROM (User's manual and QIG)
- POE-30G 802.3at adapter
- \* Specifications subject to change without notice

## Ordering Information

- IWF 5320P-EU (P/N: 10T00532003X0)
- IWF 5320P-US (P/N: 10T00532005X0)

### Wireless Accessories

- Arrester FT-RF:AR-0NM0NF06-NI  
(P/N: 7A00000066X00)
- Outdoor directional antenna FT-RF:PA-515923-NF  
(P/N: 60233SMA88X00)
- Outdoor directional antenna FT-RF:PA-515913-NF  
(P/N: 60233SMA89X00)
- Low Loss Cable, FT-RF: CA-F400NM0NM001M  
(P/N: 6023300109X00)
- Low Loss Cable, FT-RF: CA-F400NM0NM002M  
(P/N: 6023300110X00)

### Pack Program

- IWF 5320P-EU P2P Pack (P/N: 10T00532007X0)
- IWF 5320P-US P2P Pack (P/N: 10T00532006X0)