



FWB-205 Firetide Wireless Bridge

High-capacity Point-to-point

Firetide FWB-205 outdoor wireless Ethernet bridges provide low-cost, high-capacity connectivity between two locations. FWB-205 utilizes the MIMO technology to provide increased throughput and performance for a backhaul link. FWB-205 is software configurable to operate in 5 and 4.9 GHz and can deliver up to 150 Mbps of UDP throughput.

Complete Infrastructure Solution

FWB-205 product line is a natural expansion of Firetide's core wireless infrastructure technology. Firetide's expertise in large-scale wireless mesh networks for video, data and voice applications in harsh environments ensures that its bridges are optimized to provide the highest performance, security and reliability in the industry.

Concurrent Voice, Video, Data

FWB-205 bridge is optimized to provide high-capacity and low-latency connectivity for demanding data, voice and video applications. Point-to-point connectivity is critical for municipalities, public safety, industrial installations and campus environments.

In addition to these markets, this product serves the needs of wireless Internet service providers and telecom operators.

FWB-205 Wireless Bridging

FWB-205 provides true bridging functionality and is agnostic to the types of client or protocols on the network. FWB-205 supports transparent overlay of multiple subnet (VLANs) over the point-to-point link. It also provides seamless transport of multicast and broadcast traffic over the point-to-point link, including IPTV distribution, video on demand, video surveillance and video conferencing. In addition, to prevent bandwidth abuse, FWB-205 provides advanced tools such as multicast rate limits.

Privacy and Security

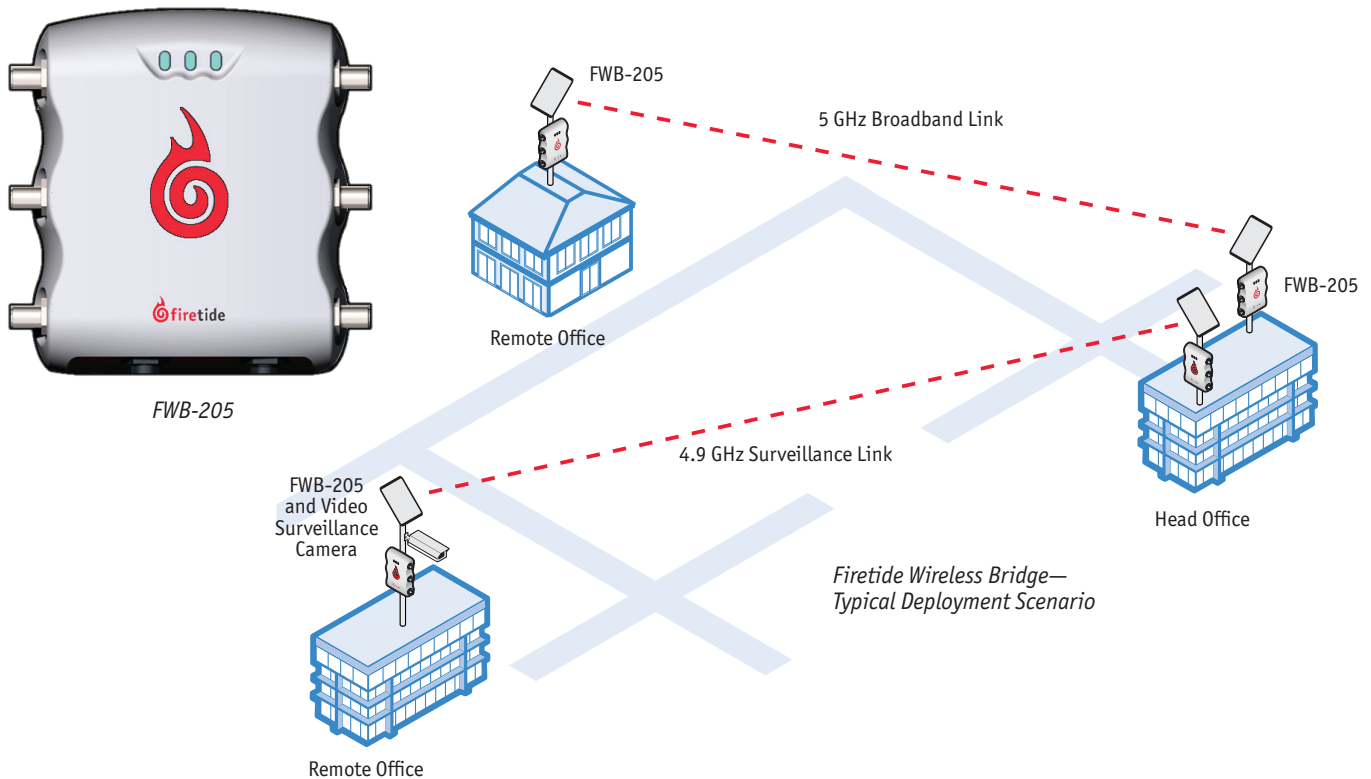
FWB-205 supports the industry's highest level of security to ensure privacy for communications and reduce liability for service providers. Like all components of the Firetide wireless mesh and access infrastructure, FWB-205 offers WPA2-PSK (Wi-Fi Protected Access) encryption for an unmatched, solid, and trusted network.

Flexibility of Deployment

Deployed as a standalone solution, the FWB-205 link is managed via a browser based management interface. Customers can also integrate the FWB-205 links into a larger Firetide mesh network managed by HotView Pro™ network management software. Designed for an easy "out-of-the-box" installation experience, the unit pair is shipped preconfigured and with all accessories included. The FWB-205 is bundled with two external 3-in-1 MIMO antennas for 4.9 and 5 GHz. An integrated antenna alignment tool provides step-by-step guidance in achieving maximum signal quality, translating to better network performance and throughput.

Enhanced Radio Management

The FWB-205 enhances the Radio Management capabilities of the bridge by providing a second radio which will be dedicated for RF Monitoring purposes. This enables features such as spectrum analysis, channel load analysis, interference detection and mitigation. Also since the radio is dedicated, this enables faster response to neighborhood RF changes.



FWB-205 Firetide Wireless Bridge

Specifications

Models

- FWB-205—MIMO wireless Bridge with external antenna (4.9 / 5 GHz only)

Wireless Interface

- IEEE 802.11a/b/g/n
- 3X3 MIMO with 2 streams
- Single radio
- Transmit power up to 400 mW per stream
- Frequency ranges
 - 4.94 – 4.99 GHz
 - 5.15 – 5.25 GHz
 - 5.25 – 5.35 GHz
 - 5.470 – 5.725 GHz
 - 5.745 – 5.795 GHz
- Receive sensitivity (typical)
 - 6 Mbps: -90 dBm
 - 54 Mbps: -73 dBm
 - HT20 MCS0: -94 dBm
 - HT20 MCS7: -77 dBm
 - HT40 MCS0: -90 dBm
 - HT40 MCS7: -74 dBm
- Ability to configure 5, 10, 20 and 40 MHz (MIMO only) channel bandwidth (20 and 40 MHz configuration available on 5 GHz)
- Dynamic Frequency Selection (DFS)
- Media Access Control: CSMA / CA with ACK

Network Ports

- 1 weatherized RJ-45 10/100/1000 Mbps Ethernet port

Security and Encryption

- WPA2-PSK
- Digital certificates

Management and Configuration

- Multiple user interface options
 - Built-in web-based management
- Remote firmware upgrade

Regulatory Agency Certifications

- Contact your Firetide dealer for product availability and certifications for your country
- RoHS, FCC Part 15, CE, WEEE compliant
- Safety

Enclosure

- Cast aluminum NEMA-4/IP66 enclosure
- Six Type-N connectors for external antennas
- One Ethernet port with weatherized watertight RJ-45 coupling
- System indicator LEDs (power, radio1, radio2)
- Weight: 2 lbs (0.9 Kg) without bracket
- Dimensions: 8.3" L X 7.8" W X 2.4" H



FWB-205 Ethernet port & DC port

(210 X 198 X 60 mm)

Power

- DC Input: 48 V, 0.63 A powered via 802.3at PoE PSE
- DC Adapter: 15 VDC/1.3 A
- AC Input: 90 – 240 VAC, 50 – 60 Hz
- Power Consumption: 11.925 W Typical

Environmental Specifications

- Operating temperature: -40°C to +60°C
- Storage temperature: -40°C to +70°C
- Humidity (non-condensing): 10% to 90%
- Storage humidity (non-condensing): 5% to 95%
- Maximum altitude: 15,000 feet (4,572 meters)

FWB-205 Included Accessories

- A pair of 4.9 to 6.1 GHz subscriber panel antenna with 19 dBi gain (17 dBi gain for 4.9 – 5.1 GHz)
- 1.5 meter LMR400 cable, lightning suppressor with Type-N connector & Az/E1 adjustable mount
- DC Adapter
- Bracket for pole mounting

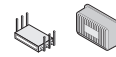
Warranty

- Hardware: one year limited warranty (Extended warranty available for purchase)
- Software: 90 days limited warranty



FWB-205 antenna connectors

Other Firetide Products



Mesh Nodes
HotPort Indoor & Outdoor Mesh Nodes



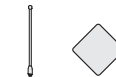
Access Points
HotPoint Indoor & Outdoor Access Points



CPE
HotClient Indoor Customer Premises Equipment



Software
HotView Pro Network Management Software



Accessories
Antennas, Mounting Kits, Cables, etc.



www.firetide.com

140 Knowles Drive, Los Gatos, CA 95032

Phone: +1 408-399-7771 | Fax: +1 408-399-7756 | Email: info@firetide.com