



FWB-200 Firetide Wireless Bridge

High-capacity Point-to-point

Firetide FWB-200 outdoor wireless Ethernet bridges provide low-cost, high-capacity connectivity between two locations. FWB-200 utilizes the MIMO technology to provide increased throughput and performance for a backhaul link. FWB-200 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-200 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-200 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-200 Wireless Bridging

FWB-200 provides true bridging functionality and is agnostic to the types of client or protocols on the network. FWB-200 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-200 provides advanced tools such as multicast rate limits.

Privacy and Security

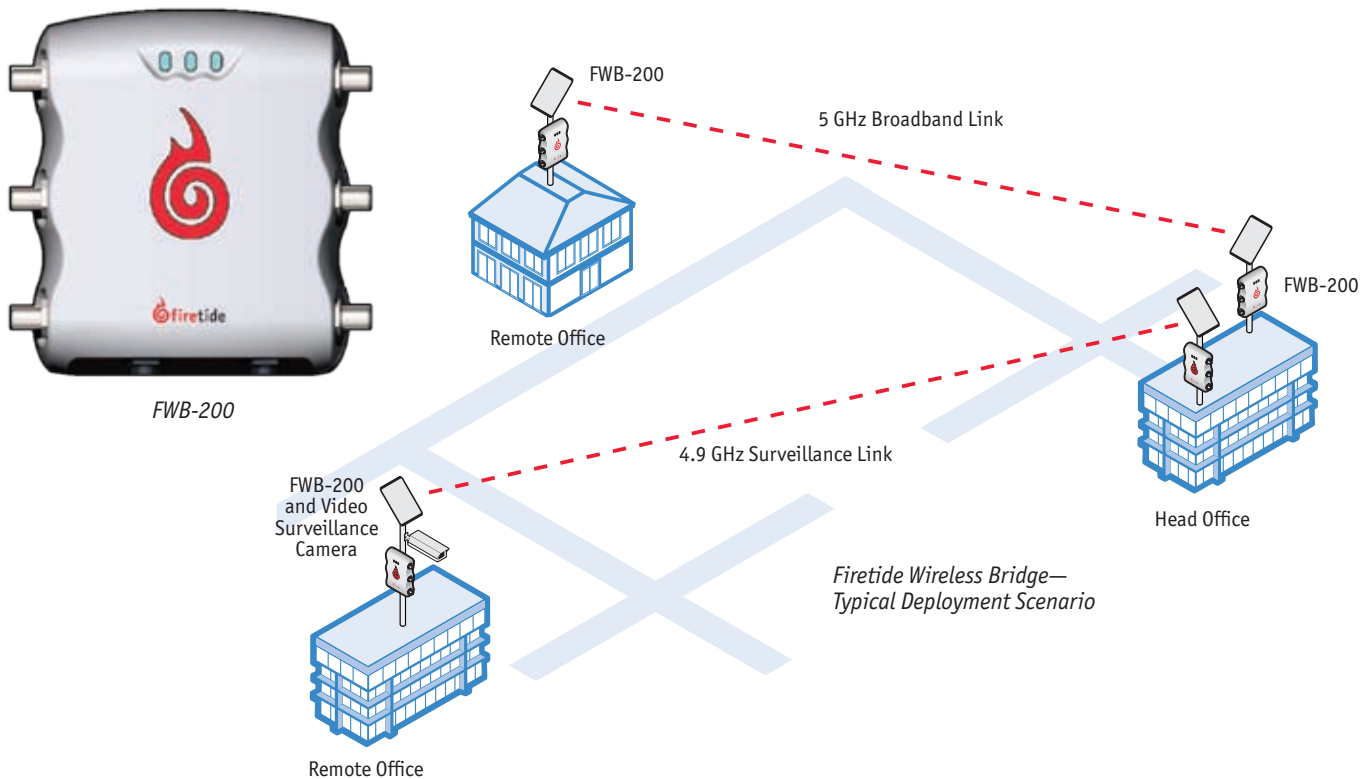
FWB-200 supports the industry's highest level of security to ensure privacy for communications and reduce liability for service providers. Like all components of the Firetide wireless mesh and access infrastructure, FWB-200 offers WPA2-PSK (Wi-Fi Protected Access) encryption for an unmatched, solid, and trusted network.

Flexibility of Deployment

Deployed as a standalone solution, the FWB-200 link is managed via a browser based management interface. Customers can also integrate the FWB-200 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-200 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-200 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.



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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
- Dual radio with one radio dedicated for backhaul traffic and one dedicated for RF monitoring.
- Transmit power up to 400 mW per stream
- Frequency ranges
 - 4.94 – 4.99 GHz (US public safety band)
 - 5.15 – 5.25 GHz
 - 5.25 – 5.35 GHz
 - 5.470 – 5.725 GHz
 - 5.725 – 5.850 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
- Dynamic Frequency Selection (DFS)
- Media Access Control: CSMA / CA with ACK
- Range up to 1000 meters depending upon client configuration and environment.

Networking

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

Security and Encryption

- WPA2-PSK
- MAC address filtering
- Support ESSID suppression
- Digitally signed firmware files
- Digital certificates on nodes

Management and Configuration

- Multiple user interface options:
 - Centralized management via HotView Pro
 - Built-in web-based management
- Remote firmware upgrade

Regulatory Agency Certifications

- Contact your Firetide dealer for product availability and certifications for your country
- RoHS and WEEE compliant



FWB-200 Ethernet port & DC port



FWB-200 antenna connectors

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: 7.8" X 8.3" X 2.4" (198 X 210 X 60 mm)

Power

- Unit power is via 802.3at Power-over-Ethernet or 12 V DC
- DC Adapter : AC Input 90 – 240 VAC, 50 – 60 Hz, 0.15 A
- Unit power dissipation <9W

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)

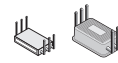
FWB-205 Included Accessories

- A pair of 4.9 to 5.8 GHz subscriber panel antenna with 23 dBi gain (21 dB gain for 4.9 – 5.1)
- 1.5 meter LMR400 cable, lightning suppressor with Type-N connector & Az/E1adjustable mount
- DC Adapter
- Bracket for pole mounting

Warranty

- Hardware: one year limited warranty
- Software: 90 days limited warranty

Other Firetide Products



Mesh Nodes
HotPort Indoor & Outdoor Mesh Nodes



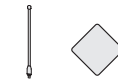
Access Points
HotPoint Indoor & Outdoor Access Points



CPE
HotClient Indoor & Outdoor Customer Premises Equipment



Software
HotView Pro Network Management Software, Firetide Mobility Controller, Firetide WLAN Controller



Accessories
Antennas, Mounting Kits, Cables, etc.



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