# HotPort 5020® Wireless Infrastructure Node

## High-capacity Point-to-point / Point-to-multi-point / Infrastructure Mesh

Firetide HotPort 5020 outdoor infrastructure nodes provide low-cost, high-capacity connectivity. HotPort 5020 utilizes the MIMO technology to provide increased throughput and performance for a backhaul link. It is software configurable to operate in 2.4, 5 and 4.9 GHz and can deliver up to 150 Mbps of UDP throughput.

## Complete Infrastructure Solution

HotPort 5020 product 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 infrastructure nodes are optimized to provide the best-in-class performance, security and reliability wrapped together in a cost-effective solution.

## Concurrent Voice, Video, Data

HotPort 5020 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 data offloading needs of wireless Internet service providers and telecom operators.

## Quality of Service

Firetide's patented AutoMesh™ flow based routing protocol supports advanced load balancing and congestion control mechanisms for optimal routing within the mesh network. The HotPort 5020 mesh infrastructure also provides extensive VLAN capabilities critical for deploying a multi-service network on a large scale.

## Metro-scale Deployments

Firetide's network easily scales up to several hundreds of mesh nodes for city-wide deployment. Advanced features like Gigabit EthernetDirect™ support mesh connectivity across multiple locations.
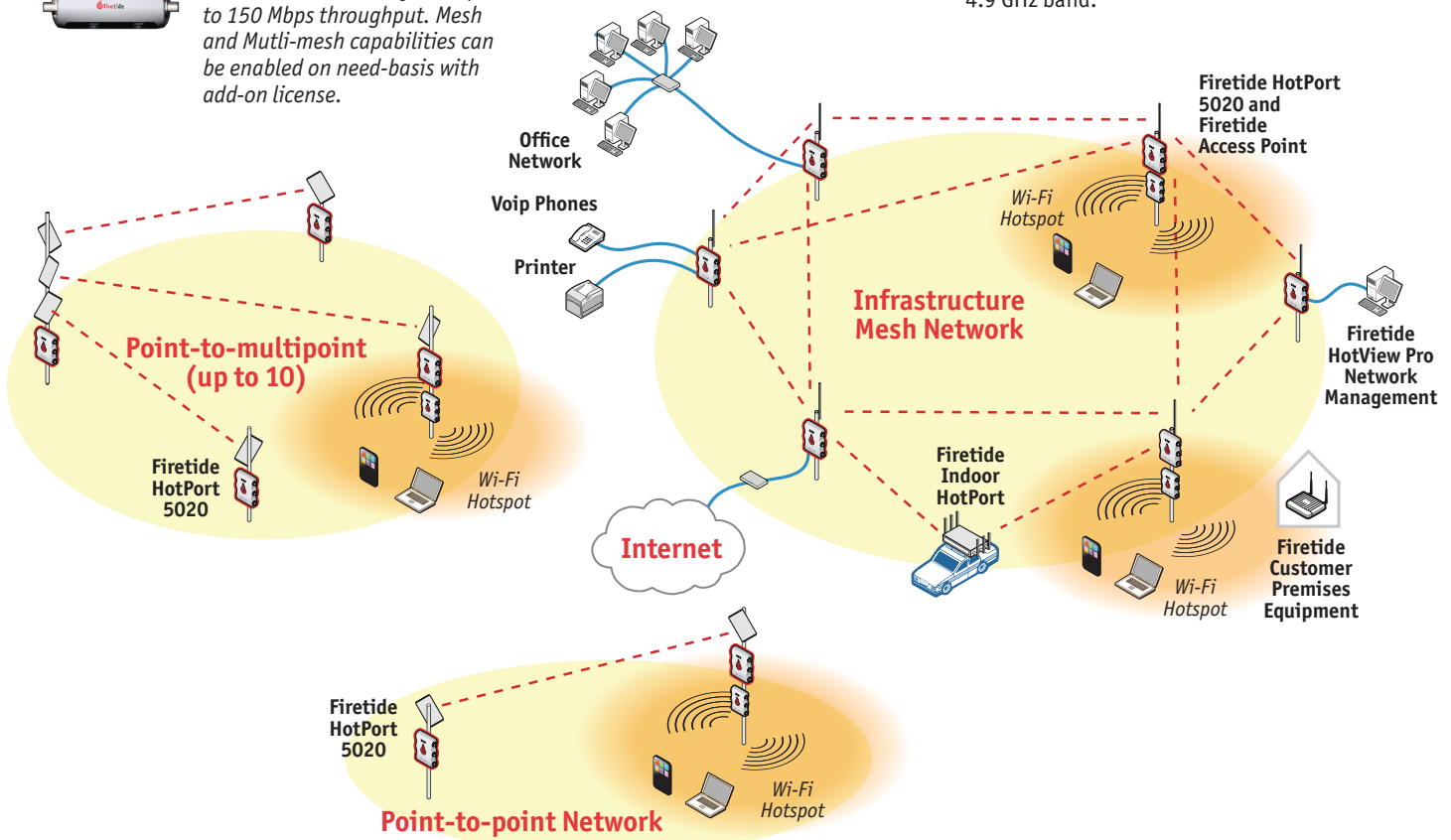
## Multicast & Security

Firetide infrastructure provides reliable multicast capabilities critical for large-scale public safety and broadband access networks. Firetide infrastructure mesh provides advanced security, including 802.11i support, 256-bit AES encryption, digital certificates on network elements, digitally signed firmware files, MAC based access control lists and VLAN based access control lists.

## Flexible Configuration

The HotPort 5020 outdoor nodes feature dual or single configurable radios in the 2.4, 4.9 (U.S. public safety licensed band) and 5 GHz frequency ranges. HotPort 5020 infrastructure mesh can utilize channel widths of 5, 10, 20 and 40 MHz (MIMO only), with 5 and 10 MHz channel widths only available on the 4.9 GHz band.

*Firetide HotPort 5020 offers cost-effective point-to-point and point-to-multipoint connectivity with advanced security and up to 150 Mbps throughput. Mesh and Mutli-mesh capabilities can be enabled on need-basis with add-on license.*

# Hotport® 5020 Wireless Infrastructure Node

## Specifications

### Models
• HotPort 5020 – Outdoor infrastructure node

### Wireless Interface
• IEEE 802.11a/b/g/n
  • 3X3 MIMO with 2 streams
• Dual radio (license required for second radio)
• Transmit power up to 400 mW per stream
• Frequency ranges
  • 2.412 – 2.483 GHz
  • 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
• PTP/PTMP up to 10 neighbors on the product as shipped.
• Software license to add mesh functionality

### Network Ports
• 1 weatherized RJ-45 10/100/1000 Mbps Ethernet port

### Security and Encryption
• WPA2-PSK
• Digital certificates

### Management and Configuration
• Muliple 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/IP67 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 (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)

### Warranty
• Hardware: one year limited warranty (Extended warranty available for purchase)
• 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 Customer Premises Equipment

**Software**
HotView Pro Network Management Software

**Accessories**
Antennas, Mounting Kits, Cables, etc.