



HotPort™

High Performance Mesh Network

The HotPort High Performance Mesh Network is the third generation of mesh networking products from Firetide. The HotPort system enables standard network applications and devices to operate on a wireless mesh network and provides instant network connectivity wherever cabling is too difficult, disruptive, or costly to install.

Designed for maximum performance, scalability, and ease of use, the HotPort mesh network provides exceptional value with the lowest cost of any mesh solution. It works seamlessly outdoors and indoors with excellent wireless connectivity and maximum coverage at each location. The included HotView™ software provides complete monitoring and management of the mesh and allows remote access via the Internet.

High Capacity

The high capacity of the HotPort mesh network makes it ideal for high-bandwidth and low latency applications such as real time video and voice networks and large Wi-Fi HotZones. The HotPort system features high performance hardware and software with up to 25 Mbps throughput.

Scalable

Hotport nodes automatically discover each other so expanding the mesh network is simply a matter of powering up more HotPort nodes within radio range of any existing nodes. Multiple HotPort mesh networks can also connect to each other to extend the mesh to even greater distances.

HotPort 3200 Series Mesh Nodes provide Ethernet service to any outdoor location over a self-forming wireless mesh backbone. Each node has a weatherproof cast aluminum enclosure and two weatherproof Ethernet ports for connecting outdoor networking devices such as access points and surveillance cameras to the mesh backbone.

Dual Spectrum Operation

HotPort outdoor mesh nodes have 54 Mbps radios that can be set to operate at 2.4 GHz for maximum range and penetration or at 5 GHz to avoid interference from 2.4 GHz traffic.

Strong Security

HotPort mesh nodes are highly secure and feature up to 104 bit WEP and up to 256 bit AES key encryption. A packet filtering function also allows network managers to specify which MAC addresses are permitted to operate on the mesh.

Self-Healing

Multiple paths between nodes allow traffic to travel around obstacles and allow the network to heal itself if a node goes down.

Virtual LANs

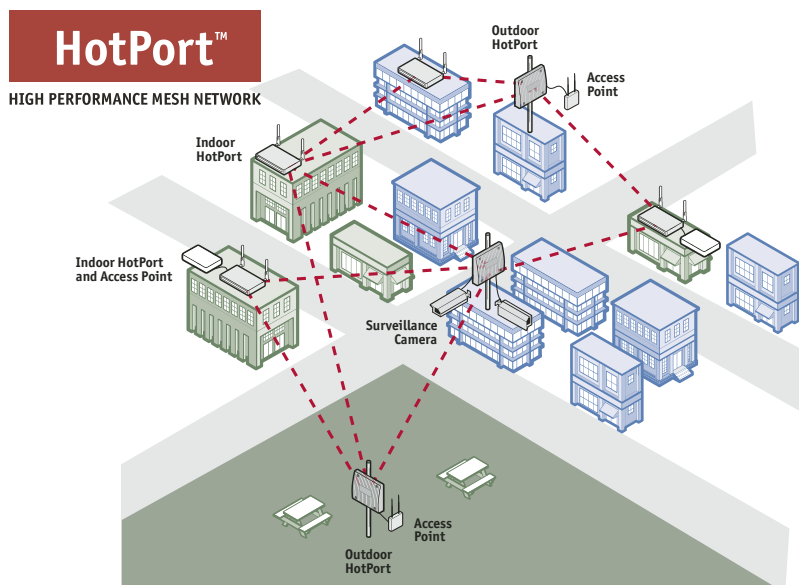
HotPort mesh nodes can enhance privacy and mesh performance by separating traffic and directing it onto specific VLAN routes. The HotPort mesh supports 802.1q VLAN tagging of packets entering and exiting the mesh.

Gateway Interconnects

Multiple interconnects for external networks such as the Internet provide redundancy for added reliability and throughput.

Traffic Prioritization

Each node provides up to three Ethernet Class of Service (CoS) levels to ensure that traffic requiring high throughput or continuous service, such as video and voice, take precedence over other forms of traffic.



Specifications



Front



With sun shield and 8 dBi antenna



Bottom panel and connectors

Model

HotPort 3203

Mesh Protocol

Firetide Mesh Routing Protocol (FMRP)

Encryption

- 40 bit, 104 bit WEP keys
- 128 bit, 256 bit AES keys

Wireless interface

2.4 GHz spectrum

- 2.400–2.497 GHz
(actual channels available for use are subject to country-specific regulatory approvals)
- TX Power: Up to 1 W EIRP depending on country of operation and antenna configuration

5 GHz spectrum

- 5.150–5.250 GHz
- 5.250–5.350 GHz
- 5.725–5.850 GHz
(actual channels available for use are subject to country-specific regulatory approvals)
- TX Power: Up to 4 W EIRP depending on country of operation and antenna configuration
- Dynamic Frequency Selection (DFS)
- Transmit Power Control (TPC)

Network ports

- Dual 10/100 Mbps Ethernet ports with round LTW weatherproof connectors
- IEEE 802.3, 802.3u compliant
- CSMA/CD 10/100 autosense

Antennas

- Two detachable 6 dBi omni directional, vertical polarization, dual spectrum antennas (included for network staging only)
- Single detachable 8 dBi omni directional, vertical polarization antennas (order separately)
Note: antennas are spectrum specific
- Spectrum: 2.4 GHz and 5 GHz
- Connectors: TNC reverse polarity
- Length: 16.5 in. (42 cm)
- Range: up to 1968 feet (600 meters) depending on spectrum and environmental attenuation
- Gain: up to 8 dBi

Enclosure

- Cast aluminum NEMA-4X/IP67 enclosure
- Two antenna connectors (TNC reverse polarity)
- One power connector
- Two round LTW weatherproof Ethernet data connectors
- System indicator LEDs (power, mesh, fault)
- Physical security via lockable mounting bracket
- Weight: 4.85 lbs (2.2 Kg) with sun shield
- Dimensions: 9.812" x 7.812" x 2.687"
(25 cm x 19.8 cm x 6.82 cm)

Power

- Input voltage: 12-24 VDC @ up to 2 A
- External transformer: 90-240 VAC, 50/60 Hz
- Power consumption:
Up to 14 W with no POE load
Up to 35 W with POE load
- IEEE 802.3af compliant PoE (PD and PSE)
- Power cord: 32.8 feet (10 M)

Regulatory agency certifications

Contact your Firetide dealer for product availability and certifications for your country

Environmental specifications

- Operating temperature: -40° C to +65° C
- Storage temperature: -40° C to +80° C
- Humidity (non-condensing): 5% to 95%
- Storage humidity (non-condensing): 5% to 95%

Mesh Management Software

Includes HotView mesh management software

Warranty

One year limited warranty (see warranty card for details)

Included accessories

- Lockable bracket for pole and wall mounting
- External power transformer
- Sun shield
- Weatherized Ethernet transition cable (round LTW female to RJ-45 female)
- Weatherized RJ-45 male connector kit



HotPort™

HIGH PERFORMANCE MESH NETWORK



Outdoor mesh nodes



Indoor mesh nodes



HotView™
mesh management
software

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