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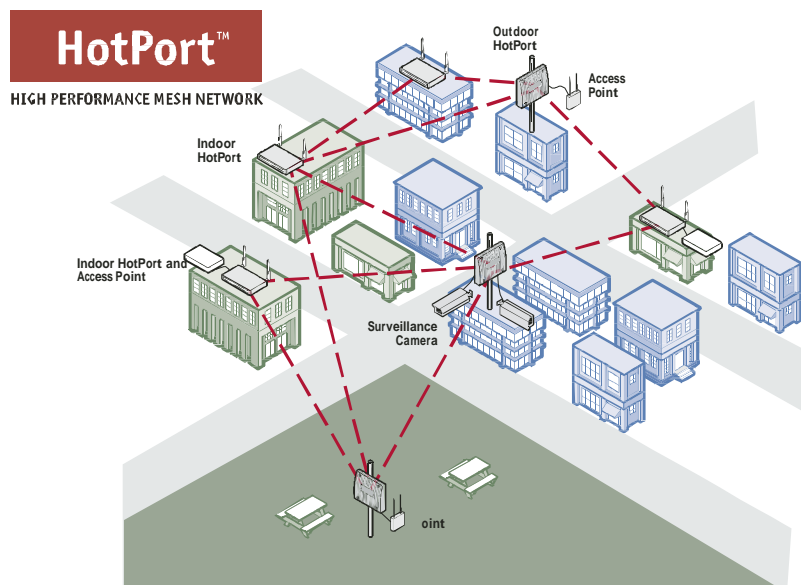
Virtual LANs
HotPort mesh nodes can enhance privacy and mesh performance by separating traffic and directing it onto specific VLAN routes. The HotPort mesh supports 802.1q VLAN tagging of packets entering and exiting the mesh.

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.

HotPort™
HIGH PERFORMANCE MESH NETWORK

Outdoor HotPort

Access Point

Indoor HotPort

Indoor HotPort and Access Point

Surveillance Camera

oint

firetide™
.fire ide.ccm

3200 series

Outdoor wireless mesh nodes

HotPort™

HIGH PERFORMANCE MESH NETWORK

Specifications

Front

With sun shield and 8 dBi antenna

Bottom panel and connectors

Outdoor mesh nodes

Indoor mesh nodes

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: -40⁰ C to +65⁰C
• Storage temperature: -40⁰ C to +80⁰ 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

**HotView™
mesh management
software**

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