



HotPort® 5020 Wireless Infrastructure Node

Reliable, Cost-effective Infrastructure Solution

HotPort 5020 infrastructure brings cost-effective reliable connectivity solutions to Firetide's core wireless infrastructure portfolio. Operators can now use HotPort 5020 to connect their edge devices onto existing Firetide mesh infrastructure networks in a cost-effective manner. 5020 infrastructure node provides an optimum balance between cost and performance for data connectivity applications such as ITS, sensor backhaul, Wi-Fi/last mile backhaul, etc. The complete spectrum of the HotPort 5020 infrastructure nodes include:

1. HotPort 5020-E/5020-ER: Reliable, cost-effective edge connectivity on the boundary of a core Firetide mesh network, delivering real usable throughput of 25 Mbps.
2. HotPort 5020-LNK: A rapid deployable, easy-to-use Point-to-Point solution with 50 Mbps of actual usable throughput.

Redundancy

The HotPort 5020-ER infrastructure node features dual radios with one active radio and one radio dedicated to the backup link to the same or different node. For mission critical applications where redundancy is not only important but highly essential, HotPort 5020-ER will intelligently re-route the network data through the redundant backup link in the event of a failure.

Easy to Use and Deploy PTP/PTMP Connectivity

Point-to-Point or Point-to-Multipoint connectivity is a cost-effective means of interconnecting edge devices or office buildings.

With pre-packaged software licenses, antennas and other accessories, HotPort 5020-LNK is optimized to provide high capacity and low-latency Point-to-Point connectivity right out of the box.

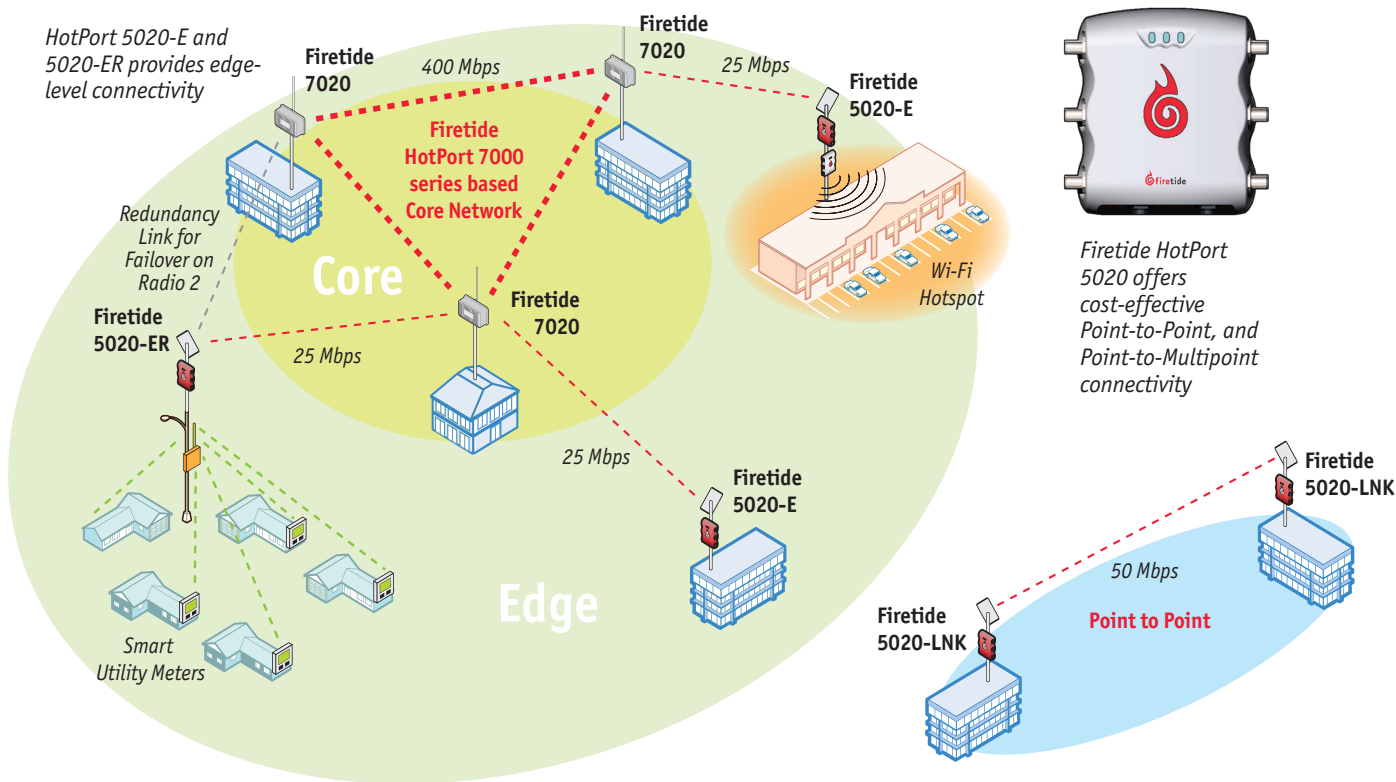
Multiple HotPort 5020 can act as Customer Premise Equipment connecting to HotPort 7000 series as base station providing Point-to-Multipoint connections.

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 infrastructure node also provides extensive VLAN capabilities critical for deploying a multi-service network on a large scale.

Flexible Configuration

All models of HotPort 5020 infrastructure node are software configurable to operate in 2.4, 4.9 and 5 GHz. The PoE powered HotPorts eliminate the need for running both data and power wires to the nodes. HotPort 5020 infrastructure nodes can utilize channel widths of 5, 10, 20 and 40 MHz, with 5 and 10 MHz channel widths only available on the 4.9 GHz band. Dynamic Frequency selection is available for approved list of countries.



Firetide HotPort 5020 offers cost-effective Point-to-Point, and Point-to-Multipoint connectivity

HotPort 5020-LNK is a comprehensive Point-to-Point solution

Hotport® 5020 Wireless Infrastructure Node

Specifications

Models

- 5020-E
 - HotPort 5020 Wireless Infrastructure Node
 - Single radio, 25 Mbps UDP
 - DC Connector
 - Dual band 2.4 GHz / 5 GHz 3 dBi antenna
 - RJ-45 weatherized Ethernet connector
 - Quick install guide
 - Hotport 5020-E can link one HotPort 7000 series node
- 5020-ER
 - HotPort 5020 Wireless Infrastructure Node
 - Dual radio, 25 Mbps UDP (second radio for redundancy, does not support linear mode)
 - DC Connector
 - Dual band 2.4 GHz / 5 GHz 3 dBi antenna
 - RJ-45 weatherized Ethernet connector
 - Quick install guide
 - HotPort 5020-ER can link to one HotPort 7000 series node; its latent redundant link can connect to the same or different 7000 series node
- 5020-LNK
 - 2x HotPort 5020-LNK Wireless Infrastructure Nodes (pre-configured to link between the two bundled 5020-LNK units)
 - Single radio, 50 Mbps UDP
 - Built-in management license for HotView Pro™
 - 2x DC Connectors
 - 2x dual band 2.4 GHz / 5 GHz 3 dBi antennas
 - 2x RJ-45 weatherized Ethernet connectors
 - Quick install guide
 - 2x AP20-050-MIMO-19 antennas
 - 2x CB-C-015-N -MIMOs

Mesh Protocol

- Firetide AutoMesh™ Protocol

Wireless Interface

- IEEE 802.11a/b/g/n
- 3X3 MIMO with 2 streams
- 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
 - 5.725 – 5.795 GHz
- Receive sensitivity (typical)
 - 2.4 GHz, DSSS
 - 1 Mbps: -95 dBm
 - 11 Mbps: -88 dBm
 - 2.4 GHz, OFDM
 - 6 Mbps: -90 dBm
 - 54 Mbps: -73 dBm
 - 5 GHz, OFDM
 - 6 Mbps: -90 dBm
 - 54 Mbps: -73 dBm
- Ability to configure 5, 10, 20 and 40 MHz channel bandwidth (5 and 10 MHz configuration available on 4.9 GHz)
- Dynamic Frequency Selection (DFS)
- Media Access Control: CSMA / CA with ACK

Traffic Prioritization

- Quality of Service (QoS 802.1p)

Network Ports

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

Security and Encryption (model specific)

- WPA/WPA2 Wireless encryption
- 128 bit / 256 bit end-to-end AES
- MAC address filtering
- Digitally signed firmware files
- Digital certificates on nodes

Management Software

- HotView Pro™ mesh management software (separate purchase required for 5020-E / 5020-ER)

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 4X/IP66 enclosure
- Type-N antenna connectors
- One weatherproof power connector
- One weatherproof Ethernet connector
- System indicator LEDs (Power, Radio 1 and Radio 2)
- Weight: 3.75 lbs (1.7 kg)
- Dimensions: 8.6" L X 8.2" W X 2.0" H

Power

- Input power: 48 V / 0.40 A powered via 802.3at
- PoE PSE
- External DC Input: 15 V / 1.3 A
- External power supply: 100–240 VAC, 50/60 Hz
- Power consumption: 11.93 W (Typical), 18.93 W (Max)

Environmental Specifications

- Operating temperature: from -40 °C to +60 °C (-40 °F to +140 °F)
- Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F)
- Humidity (non-condensing): 10% to 90%
- Storage humidity (non-condensing): 10% to 90%
- Max altitude: 15,000 ft (4,572 m)

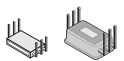
Warranty

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

Optional Accessories

- Antennas
- PoE Power injector
- Cable assemblies

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, Firetide Mobility Controller, Firetide WLAN Controller



Accessories
Antennas, Mounting Kits, Cables, etc.



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