

HotPort 5020-E Wireless Infrastructure Node



HotPort 5020 Wireless
Infrastructure Node

HotPort 5020 brings cost-effective reliable connectivity solutions to the edge of FireTide's core wireless infrastructure portfolio.

Reliable, Cost-effective Infrastructure Solution

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

- HotPort 5020-M: Advanced security, reliability and connectivity with 25 Mbps of usable throughput.
- HotPort 5020-E: Reliable, cost-effective edge connectivity on the boundary of a core FireTide mesh network, delivering real usable throughput of 25 Mbps.
- HotPort 5020-LNK: A rapid deployable, easy-to-use point-to-point solution with 50 Mbps of actual usable throughput.

Easy to Use and Deploy PTMP Connectivity

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

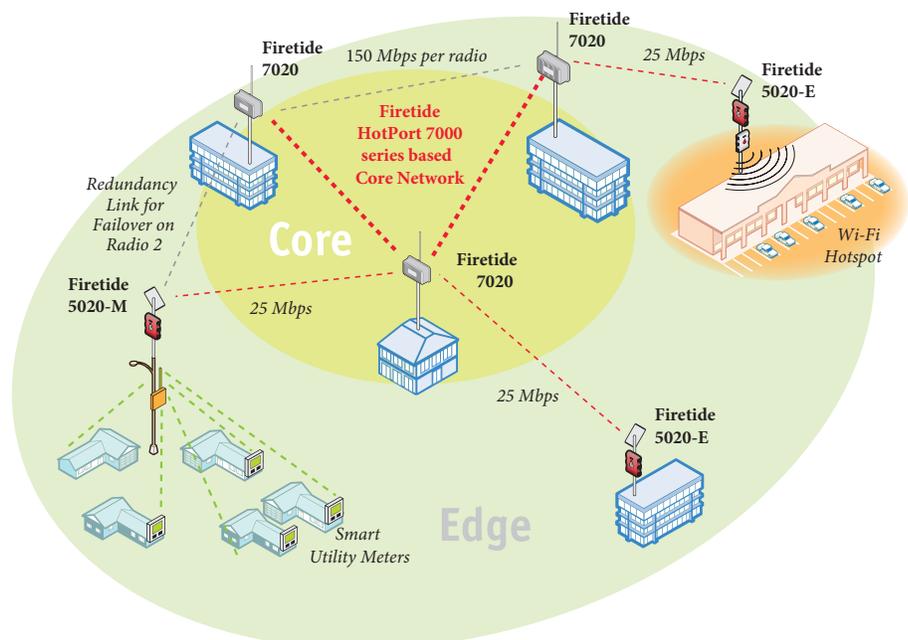
Quality of Service

FireTide's patented AutoMesh™ platform 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.



HotPort 5020-E and 5020-ER provides edge-level connectivity

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

Mesh Protocol

- Firetide AutoMesh Protocol

Wireless Interface

- IEEE 802.11a/b/g/n
- 3X3 MIMO with 2 streams
- Transmit power up to 400 mW
- 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)

Regulatory Agency Certifications

- Safety: MET Mark; IEC/EN60950-1
- FCC Part 15, CE, Industry Canada
- RoHS / CMM / WEEE

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: 56 V / 0.55 A powered via 802.3at PoE PSE
- External DC Input: 15 V / 3.0 A
- Power consumption: 12 W (Typical), 28 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): Max to 90%
- Storage humidity (non-condensing): Max 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

*For more information refer to antenna or accessory guide

Firetide Products



Mesh Nodes

HotPort Indoor, Outdoor and Edge Mesh Nodes

Access Points

HotPoint® Indoor & Outdoor Access Points



Mobility

Firetide Mobility Controller



Software HotView Pro Mesh Management Software



Accessories

Antennas, Mounting Kits, Cables, etc.