HotPort® 5020-LNK Wireless Infrastructure Node

HotPort 5020 Wireless Infrastructure Node

HotPort 5020-LNK infrastructure node provides low-cost, PTP connectivity.

High-capacity Point-to-Point

5020-LNK utilizes the MIMO technology to provide better 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 50 Mbps of UDP throughput with data rates of upto 300 Mbps.

Complete Infrastructure Solution

5020-LNK is a natural expansion of Firetide's core wireless infrastructure technology to PTP applications. Firetide's expertise in large-scale wireless mesh networks for video, data and voice applications in harsh environments ensures that its point-to-point solution is optimized to provide the best-in-class performance, ease-of-use, and security in the industry.

Rapid Deployment and Easy-to-Use

Point-to-point 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.

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.
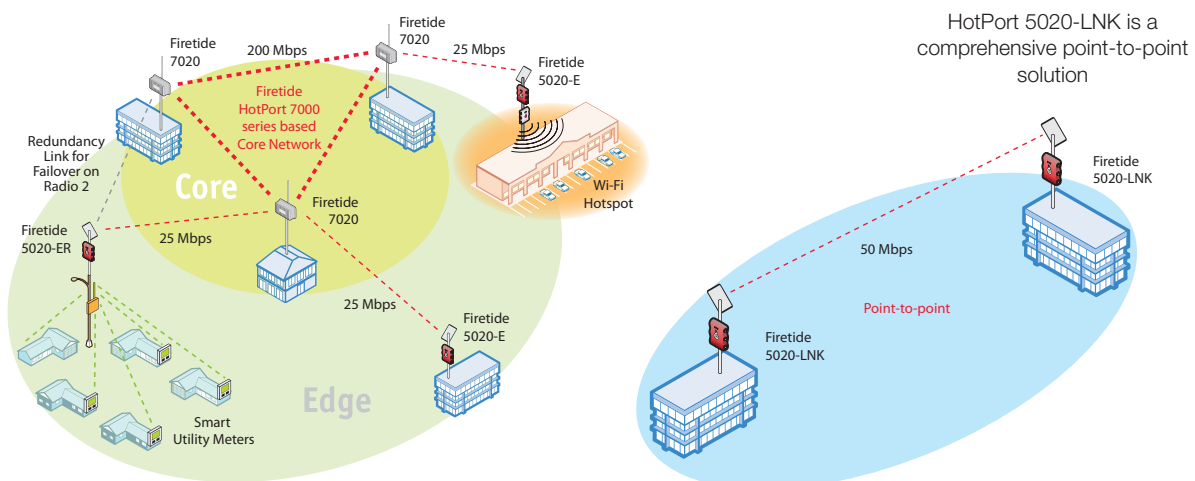
Concurrent Voice, Video, Data

5020-LNK is optimized to provide 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 needs of wireless Internet service providers and telecom operators.

5020-LNK Wireless Bridging

5020-LNK provides true bridging functionality and is agnostic to the types of client or protocols on the network. It supports transparent overlay of multiple subnet (VLANs) over the point-to-point link. It also provides seamless transport of multicast and broadcast traffic over the point-to-point link, including IPTV distribution, video on demand, video surveillance and video conferencing. In addition, to prevent bandwidth abuse, 5020-LNK provides advanced tools such as multicast rate limits.

Privacy and Security

HotPort 5020-LNK supports the industry's highest level of security to ensure privacy for communications and reduce liability for service providers. Like all components of the Firetide wireless mesh and access infrastructure, 5020-LNK offers WPA2-PSK (Wi-Fi Protected Access) based authentication for an unmatched, solid, and trusted network.

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

Specifications

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
- 2x PoE injectors with AC cords
- 2x Built-in management license for HotView Pro™
- 2x Builtin MIMO license
- 2x DC Connectors
- 2x Dual band 2.4 GHz / 5 GHz 3 dBi staging antennas
- 2x RP-SMA to Type-N connectors
- 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
- 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 FrequencySelection (DFS)
- Media Access Control: CSMA/CA with ACK

Network Ports

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

Security and Encryption (model specific)

- WPA/WPA2 based Wireless authentication
- MAC address filtering up to 64 MAC ACLs
- Digitally signed firmware files
- Digital certificates on nodes

Management Software

- HotView Pro™ mesh management software (included)

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 ºC to +60 ºC (-40 ºF to +140 ºF)
- Storage temperature: -40 ºC to +70 ºC (-40 ºF to +158 ºF)
- 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

- Panel, Omni and Sector Antennas*

*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.

Data Sheet