FlexPort µWave
18 GHz, 23 GHz and 24 GHz Full-Rate Gigabit Capacity Wireless Links

ULTRA-HIGH CAPACITY WIRELESS LINKS FOR HIGH BANDWIDTH APPLICATIONS

The FlexPort® family of high capacity millimeter wave radios offers carriers, service providers, government and enterprise users the ultimate flexibility in an access and aggregation/backhaul solution for today's networks.

The FlexPort µWave family of microwave radio systems have been designed specifically to meet the requirements of operators, carriers, and service providers requiring full-rate gigabit connectivity in a single, compact, all-outdoor enclosure. FlexPort µWave accomplishes this through an innovative approach in aggregating multiple RF channels without the need for additional hardware as with other lower licensed frequency band products. This helps ease installation and maintenance costs on the network by offering only one device to install and manage, providing the end customer with a highly-reliable, fully integrated backhaul solution.

BridgeWave is the market leader in providing highly reliable high capacity wireless solutions for next generation 4G networks. The FlexPort family of products leverages our expertise in designing and bringing to market carrier-class millimeter wave and microwave solutions that have been accepted and used in thousands of installations worldwide.

WIRELESS VIRTUAL FIBER SOLUTIONS FOR:

- Mobile Backhaul
  Future-proof full-rate gigabit backhaul for next generation 4G/LTE/WiMAX backhaul.

- Service Provider
  High-capacity business services, fiber extensions, cellular/Wi-Fi/WiMAX backhaul, redundant fiber overlays, mesh.

- Education
  High-performance campus connectivity, Wi-Fi and security camera backbone.

- Enterprise
  Server centralization, remote data storage and backup, leased line replacement.

- Government/Municipalities
  Video surveillance systems, traffic control and monitoring, Wi-Fi/4.9GHz backhaul.

- Healthcare
  Secure, HIPAA-compliant connectivity, medical office, lab network access, real-time imaging & records, application connectivity.

FEATURES

Performance:
- Full-rate, full-duplex gigabit Ethernet transmission
- Internal 5-port gigabit Ethernet switch
- Low latency for fiber-equivalent performance
- Innovative RF channel aggregation yields true GigE throughput
- QPSK – 256QAM modem design allows flexibility in link planning
- Optional FIPS-Certified 256-bit AES Encryption

Ease of Use:
- All-outdoor design
- Field-pluggable SFPs available with multi-mode, single mode, or copper interfaces
- Web based & SNMP management

Proven Reliability:
- Based on proven design – thousands of full-rate GigE millimeter wave terminals installed
- Rigorous HALT/HASS testing
- Up to 99.999% carrier-grade availability

Simple GigE Implementation:
- Less hardware to install than other microwave systems
- Lower dollar per megabit total cost of ownership
- Smaller & lighter than solutions requiring two ODU's and combiners
- No tower climb for upgrades

Backhaul Evolved®
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>FlexPort 18</th>
<th>FlexPort 23</th>
<th>FlexPort 24</th>
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<tbody>
<tr>
<td><strong>Frequency Range</strong></td>
<td>17.7 – 19.7 GHz</td>
<td>21.2 – 23.6 GHz</td>
<td>24.25 – 25.25 GHz</td>
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<tr>
<td><strong>Data Rates &amp; Modulation</strong></td>
<td>40/50/80/100/150 MHz RF Channel Bandwidth: 62/83/125/166/250 Mbps</td>
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<td>40/80/160 MHz RF Channel Bandwidth: 62/125/250 Mbps</td>
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<tr>
<td><strong>RX Sensitivity for 1x10^4 B.E.R.</strong>*</td>
<td>-80/-79/-77/-76/-74 dBm</td>
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<tr>
<td><strong>Power Output</strong></td>
<td>+26 dBm</td>
<td>+25 dBm</td>
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</tr>
<tr>
<td><strong>Latency</strong></td>
<td>110 µSec</td>
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<tr>
<td><strong>Management</strong></td>
<td>Web-based (HTTP) embedded management agent, HTTPS secure management available</td>
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<td><strong>Regulatory</strong></td>
<td>Safety: UL Listed, meets FCC 1.3.10 general population RF MPE limits</td>
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*Notes: 80 MHz refers to 2 x 40 MHz channels 100 MHz refers to 2 x 50 MHz channels 150 MHz refers to 3 x 50 MHz channels 160 MHz refers to 4 x 40 MHz channels