

Business Only Broadband

Technology Overview
Bridgewave 60GHz and 80GHz Systems
February 2008

Technology Overview

60 GHz & 80 GHz spectrum:

❖ 60 GHz spectrum

- ❖ 57-64 GHz opened by FCC in 2001 as license-free
- ❖ U.S. and Canada offer compatible rules
- ❖ Highly-available connectivity at up to one-mile

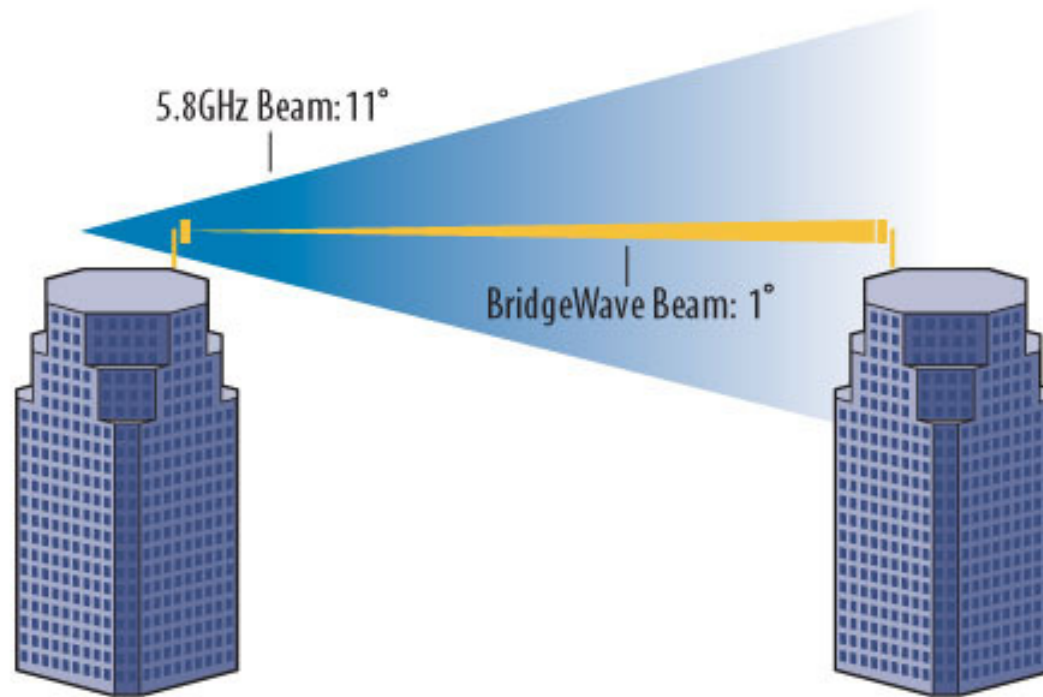
❖ 80 GHz spectrum

- ❖ 71-76/71-86 GHz opened by FCC in 2003 with lightweight licensing
- ❖ Available in U.S., U.K, Middle East, Australia – expect worldwide adoption
- ❖ Highly-available connectivity over multi-mile distances

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Technology Overview (cont.)

Security:



- ❖ One degree beams are highly secure and interference immune
- ❖ Far superior to lower frequency, wider beam products
- ❖ Harder to “tap” than inter-building fiber in conduit!

AES Encryption Option



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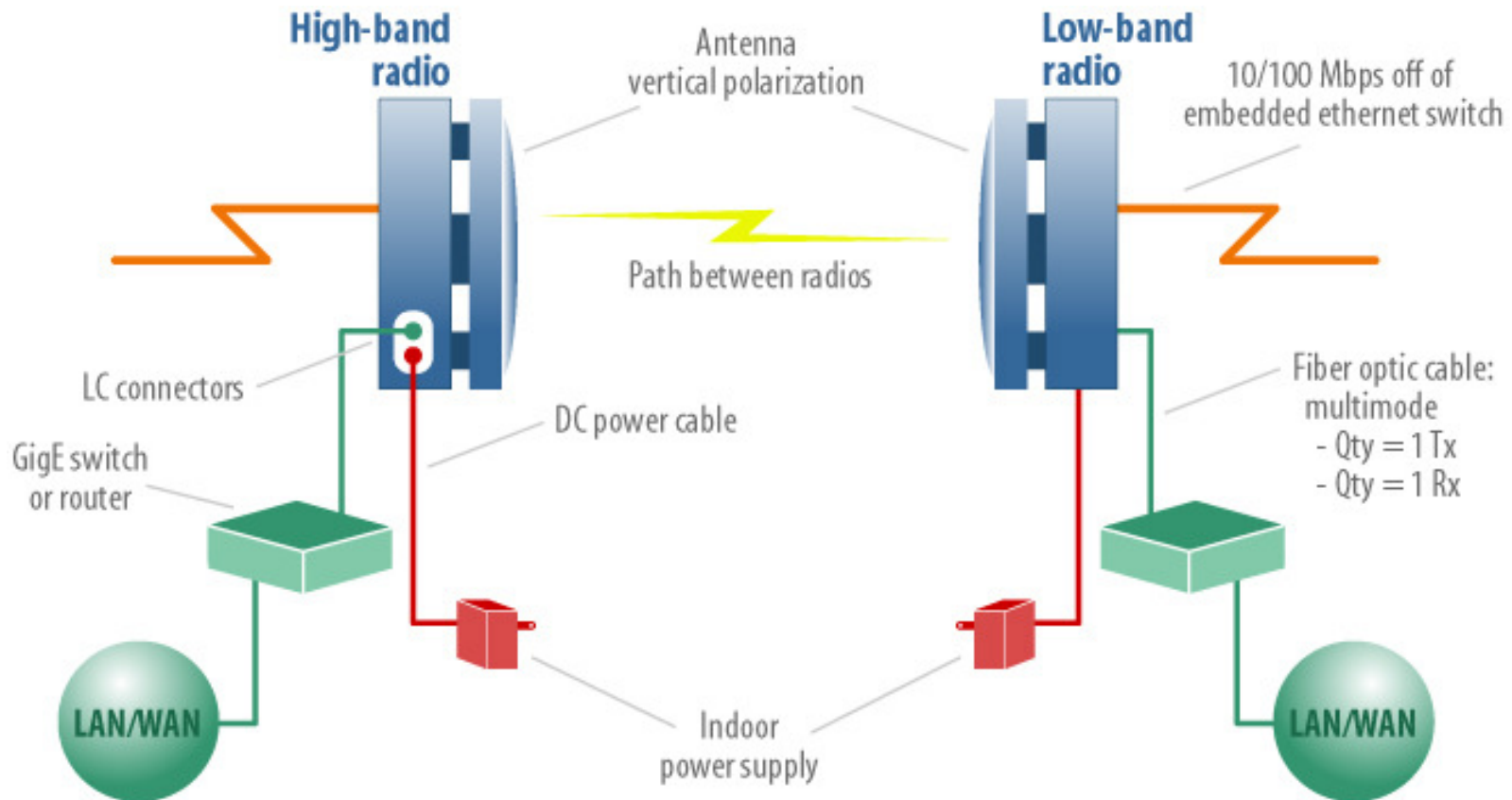
**Unique
256-bit keys**

- First built-in GigE wireless encryption
 - Simple to configure and deploy
 - Affordable for mainstream applications
 - Avoids external-box solutions
- 256-bit Advanced Encryption Standard (AES)
 - Strongest encryption available
 - Meets “Top Secret” military requirements
- Top performing GigE encryption solution
 - Full line-speed data rate under all conditions
 - Ultra-low latency – adds only two microseconds!

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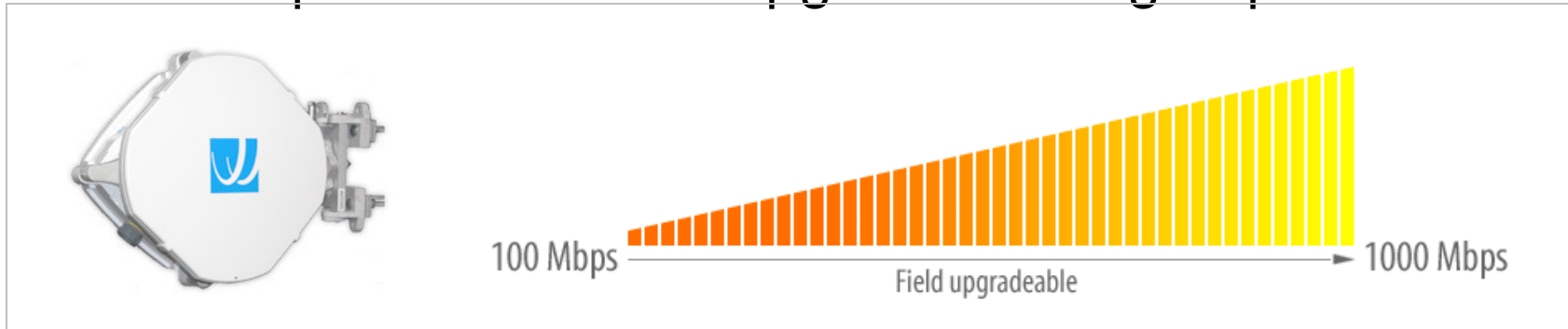
Technology Overview (cont.)

Simple network diagram:



Technology Overview (cont.)

All 100Mb products can be upgraded to GigE speeds



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