



BridgeWave

COMMUNICATIONS

About BridgeWave

Founded in 1999 by veteran technology executives from the high-performance wireless industry, BridgeWave delivers highly-reliable, cost-effective high capacity wireless solutions for mobile, carrier, service provider, enterprise, and government (including municipal and military applications) networks. High performance, lower costs, ease of operation and excellent wireless network security deliver a superior alternative to fiber-based solutions, including wireless backhaul and 4G mobile network requirements.

The company's 60 GHz and 80 GHz millimeter wave links offer up to ten times the bandwidth of license-free wireless links with added interference immunity. These products contain features such as AdaptRate™, AdaptPath™, built-in Ethernet switch and optional internal 256-bit AES encryption, making them the most feature rich millimeter wave solutions on the market today.

BridgeWave's carrier-grade, point-to-point wireless FlexPort® links provide a cost-effective, future-proof mobile backhaul solution for "greenfield" 4G network deployments or for carriers and mobile operators looking to migrate from existing TDM-based 3G networks to next generation IP-based 4G/LTE/WiMAX networks.

BridgeWave's FlexPort μ Wave products are the first licensed-band microwave solutions to enable full-rate gigabit connectivity in a cost-effective, single all-outdoor enclosure while providing carrier-grade Ethernet features. FlexPort μ Wave provides carriers and network operators a true future-proof backhaul solution without the need for additional hardware or a tower climb for full-rate gigabit transmissions.

Setting the standard for product quality, BridgeWave employs Highly Accelerated Life Testing (HALT) during design and Highly Accelerated Stress Screening (HASS) during production to ensure the highest levels of product reliability and customer satisfaction. BridgeWave is a U.S.-based corporation headquartered in Santa Clara, California, and is an ISO 9001 registered company. The company has strong global presence with over 10,000 solutions deployed in more than 50 countries. BridgeWave has a network of experienced distributors and resellers worldwide, making it today's leading vendor of high-capacity solutions to address the needs of network operators, service providers and private networks.



Backhaul Evolved®



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FEATURES

- Full rate, full duplex, ultra low latency GigE transport
- Fast Ethernet products are software key upgradeable to GigE
- Simultaneous TDM + IP Transport (FlexPort 80)
- Microwave (18 & 23 GHz) and Millimeter Wave (60 & 80 GHz) solutions
- Integrated all-outdoor unit is easy to install with minimal configuration
- Multi-carrier operation in a single, all-outdoor solution (FlexPort μWave)
- Carrier class “five-nines” operation over the longest link distances
- AdaptRate™ technology ensures all-weather link availability
- AdaptPath™ capability provides proactive secondary path switching
- Narrow antenna beams provide security and interference immunity (60 & 80 GHz)
- Integrated gigabit Ethernet switch supports “add/drop” configurations
- Internal 256-bit AES encryption offers maximum data security

BENEFITS

- Rapid deployment avoids construction and fiber-leasing delays
- Eliminates recurring leased-line transmission charges
- Rapid Return On Investment - usually measured in months
- Significantly outperforms copper-based alternatives
- Future-proof network capacity
- Infrastructure ownership - predict and control costs



60 GHz



80 GHz



Microwave



Picocell

APPLICATIONS

Carriers, network operators and service providers require a future-proof solution for access, aggregation and backhaul of existing 3G networks, while providing for a cost-effective migration path to next generation 4G services. Government and Enterprise users share a growing need for high capacity, reliable and secure network connectivity alternatives to interference-prone low frequency radios and cost-prohibitive, limited availability fiber. BridgeWave’s high-capacity point-to-point wireless solutions are the perfect alternative to meet these challenges and accommodate these wireless backhaul needs today and into the future.



MOBILE BACKHAUL

Future-proof high-capacity backhaul for next generation 4G/WiMAX/LTE services.



SERVICE PROVIDER

High-capacity business services, cellular/ Wi-Fi/WiMAX backhaul, fiber backbone extensions, redundant fiber overlays, mesh backbone, and short term connections.



HEALTHCARE

Secure (HIPAA-compliant) campus connectivity, off-site medical office and lab network access, real-time imaging application connectivity, redundant fiber overlays and disaster recovery.



EDUCATION

High-performance campus and off-site location connectivity, Wi-Fi and security camera backhaul and connectivity to service provider fiber.



MUNICIPALITIES

High-performance backbone connectivity for municipal networks, video surveillance systems, traffic control and monitoring, backhaul for 4.9 GHz mesh nodes, homeland security, E911 deployments.



GOVERNMENT/MILITARY

Highly-secure inter-building connections, redundant fiber overlay, disaster recovery and short term connections.



ENTERPRISE

Inter-building LAN extensions, server centralization, remote data storage and backup, redundant fiber overlays and disaster recovery.

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