



RFS delivers innovative 6 and 11 GHz dual-band, dual-polarized microwave antennas, enabling cost-effective long-distance microwave backhauling for 5G applications

RFS PrimeLine TowerBooster microwave antennas for long-haul links double or quadruple capacity compared to single-band microwave antennas



Trignac, France, February 25, 2021 - Radio Frequency Systems (RFS), a global designer and manufacturer of total-package solutions for wireless and broadcast infrastructure, today announced it is delivering innovative, new PrimeLine TowerBooster microwave antennas that support the commonly used 6 GHz and 11 GHz bands in a single reflector. The dual-band, dual-polarized antennas double or quadruple capacity on microwave links compared to single-band microwave antennas. With the additional capacity, microwave users can backhaul large volumes of traffic with a single, high-performance microwave antenna.

High-capacity, high-performance dual-band microwave antennas lower total cost of ownership

RFS PrimeLine TowerBooster dual-band microwave antennas are ideal for new long-haul microwave installations and as replacements for single-band antennas. With support for horizontal and vertical polarization in each band, the new antennas:

- Double capacity compared to single-band, dual-polarized microwave antennas
- Quadruple capacity compared to single-band, single-polarized microwave antennas

The new dual-band microwave antennas have the same footprint as RFS 6-, 8-, 10- and 12-foot single-band microwave antennas, enabling one-for-one replacement. Microwave backhaul users can significantly increase link capacity with no need to purchase a second antenna, pay for additional transportation costs, lease additional tower space or compromise on antenna performance.

To ensure superior electrical and mechanical performance and microwave link reliability, PrimeLine TowerBooster 6 and 11 GHz dual-band antennas:

- Provide ETSI Class 3 ultra-high performance
- Meet FCC Part 101 Cat A standards in the 6 and 11 GHz bands
- Feature high cross-polarization discrimination (XPD) between the two bands to support high-capacity cross-polarization interference cancellation (XPIC) and Co-Channel Dual Polarization (CCDP) applications
- Maximize the effects of link diversity in a single antenna to mitigate multipath fading on long-distance links and to increase link quality and availability
- Incorporate RFS structural design features to achieve outstanding mechanical reliability



- Are available in standard and high wind, high ice configurations for reliable operation in severe environment and climate conditions

“With 5G network roll outs ramping up all over the world, microwave users need a reliable, high-performance and cost-effective solution to increase capacity on long-haul microwave links,” says Benjamin Gao, RFS Regional Product Manager, Microwave Antenna Systems. “Our 6 and 11 GHz PrimeLine TowerBooster microwave antennas give microwave users the capacity and performance they need to reliably backhaul 5G data over long distances with low total cost of ownership. When combined with our 2-ft short-haul, dual-band microwave antennas, mobile operators have a complete multi-band microwave solution to efficiently backhaul large volumes of 5G data from urban environments to suburbs and beyond.”

RFS short-haul, dual-band antennas support high-capacity, low-latency 80 GHz (E band) transmissions as well as higher availability 15, 18 or 23 GHz transmissions in a single antenna.

RFS **high wind, high ice** microwave antennas have been delivering proven performance on mountaintops and other locations in some of the harshest environments in North America for more than a decade.

About RFS

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, plus active and passive RF conditioning modules, providing total-package solutions for wireless infrastructure.

RFS serves OEMs, distributors, system integrators, operators and installers in the broadcast, wireless communications, land-mobile and microwave market sectors. As an ISO compliant organization with manufacturing and customer service facilities that span the globe, RFS offers cutting-edge engineering capabilities, superior field support and innovative product design. RFS is a leader in wireless infrastructure.

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