



News from RFS

Radio Frequency Systems (RFS) Announces New Ultra-Broadband RF X-TREME™ Triple-Band Antennas

Latest Additions to RF X-TREME Product Family are Ideal for Triple-Band Site Upgrades and MIMO 4x4



Meriden, CT (United States), May 18th, 2015 – [Radio Frequency Systems](#) (RFS), the global wireless and broadcast infrastructure specialist, today introduced [APXVBLL20X-C and APXVBLL20X-C-I20](#) models of its popular RF X-TREME™ Triple-Band Antenna. The newest additions to RFS' [RF X-TREME](#) family of ultra-broadband antennas facilitate triple-band site upgrades for reduced cell interference in high traffic areas. BLL RF X-TREME antennas can be used for multiple bands such as LTE 700, LTE 800, Digital Dividend 2, CDMA, GSM, DCS, UMTS and LTE 2.6.

With the RF X-TREME portfolio, RFS provides the capacity of three full-band antennas by orienting them side by side to achieve high gain and optimal performance in a single package. Using the entire antenna length for every band instead of the traditional method of stacking antennas on top of one another means operators can evolve from a dual-band antenna to a triple-band antenna of the same length and maintain similar gain levels. Providing full-band coverage on every port enables operators to now implement 4xRx and 4xMIMO on any of the higher frequency bands, enabling excellent cell-edge performance with fewer base stations – which is particularly effective for LTE advanced.

The low-width, aerodynamic BLL models support 694-2690MHz frequency bands. The antennas are triple-band cross-polarized with three arrays (6 ports), 1x694-960 / 2x1695-2690. The radome design dramatically reduces wind load and minimizes tower loading. RFS triple-band antennas carry close to half the wind load of competitive products with broad variable tilt range from 0 to 10 degrees – which is beneficial for applications in dense areas – while maintaining 28dB isolation premium performance.

Variable electrical downtilt provides enhanced precision for controlling intercell interference; tilt is remotely adjustable according to AISG/3GPP standards. The new antennas offer integrated

RET, manual overdrive and a tilt indicator to streamline installation and ensure ease-of-use. Integrated RET serial numbers are available on the antenna radome, which will ease on-site commissioning and secure remote mapping from OMC.

“The next generation of multi-band antennas is coming – starting with triple-band – and RFS is committed to expanding our product portfolio to give our customers exactly what they need to keep up with evolving demands and maintain a competitive advantage,” said Arnaud Baron, global product manager, base station antennas, RFS. “Our RF X-TREME antennas are the natural choice when migrating from legacy dual-band. The architecture of the new BLL models delivers some of the best gains in the market, allowing better performance in even the densest urban markets.”

BLL antennas provide optimal vertical pattern control in low band and high bands and deliver high gains in high band frequencies where attenuation is sharp, which is critical for cellular site planning. The high suppression of upper sidelobes (USL) reduces cell interference, which is a leading capacity limiter for all cellular networks.

BLL RF X-TREME models are compatible with RFS Universal Mount APM40 for simple installation.

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About RFS

Radio Frequency Systems (RFS) is a global designer and manufacturer of cable, antenna and tower systems, as well as active and passive RF conditioning modules, providing total-package solutions for outdoor and indoor wireless infrastructure. RFS serves OEMs, distributors, system integrators, operators and installers. Its customers currently include the four largest wireless carriers, the majority of tier 2 and 3 wireless carriers in North America and many of the top wireless and microwave OEMS worldwide.

For more than 70 years, RFS has provided its customers world-class service that today is backed by a global presence of nine manufacturing facilities worldwide and sales and technical support centers in 23 countries. RFS offers advanced engineering capabilities, superior field support, and expert technical assistance and training to provide scalable, flexible, future-proof and lightweight end-to-end solutions optimized across the entire RF chain. As an ISO-compliant organization, RFS solutions offer proven longevity, premium performance and unrivalled quality.

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