RFS Announces Ultra-broadband LTE Multi-band Antenna Additions to its RF X-TREME™ Base Station Portfolio

New Penta and Quad Band Antennas Support Addition of More Frequencies from a Single Antenna

Meriden, CT (United States), January 5th, 2016 – Radio Frequency Systems (RFS), the global wireless and broadcast infrastructure specialist, today announced that new multi-band product models have been added to its popular RF X-TREME portfolio to best support a broader frequency range including 694-960 and 1695-2690 MHz. RFS’ RF X-TREME family of antennas provides high-performance triple-band capability in a compact dual-band package to support multiple bands with no compromises in electrical performance.

The RF X-TREME base station antenna’s design provides the highest gain and cross polar discrimination combined with the best vertical pattern control of any triple band antenna of its size in the industry. By providing full-band coverage on every port, RFS enables operators to now implement 4xRx and 4xMIMO on any of the higher frequency bands for excellent cell-edge performance with 30 percent fewer base stations. The design features and capabilities in the multi-band RF X-TREME platform make it ideal for adding capacity and coverage to existing sites. It is also well-suited for new sites because it allows operators to support additional bands in the future without replacing the antenna. Ultra-broadband (UBB) capabilities support bands in both low (698-960MHz) and high (1695-2690MHz) frequency ranges with a single antenna that accommodates the full spectrum of LTE and 4G applications – including LTE700, LTE800, LTE2.6 - now and into the future.

The new additions include RF X-TREME™ Cross Polarized Penta-Band Antenna for 694-2690MHz (APXVB4L26X-C-I20) and two RF X-TREME™ Quadband XXXpol Antennas for 790-2690MHz (APXVNGLL26XD-C and APXVNGLL26XTD-C). RFS’ antennas provide the capacity of three full band antennas by orienting them side by side to achieve high gain and optimal performance in a single package, allowing operators to support their customers’ increasing data demands. 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.
The new 10-port penta-band antenna includes ultra-broadband and multi-band services for site solutions in high traffic areas. RFS’ UBB technology delivers higher performance gain for better coverage, reduced interference, and excellent front-to-back ratio and performance stability across frequencies. This antenna can be used for multiple bands such as LTE700, LTE800, CDMA, GSM, DCS, PCS, AWS, UMTS, LTE1800, LTE2300 and LTE 2600. It is an ideal choice for site upgrades and new deployments where five frequency bands, or MIMO/4 RX diversity, is used to add capacity and increase coverage. The antenna has an integrated remote electrical tilt (RET) solution on all 5 cross-polar antenna arrays for easy installation and includes two AISG connectors located on the antenna bottom plate.

The 8-port quadband antennas are an ideal choice for quadband site upgrades for high traffic areas and can be used for multiple bands such as digital dividend, CDMA, GSM, DCS, UMTS and LTE 2.6. Both new models include UBB design for LTE 800 and LTE 2600; variable electrical downtilt which provides enhanced precision in controlling intercell interference; remotely adjustable tilt based on AISG/3GPP standards; and sleek radome design to dramatically reduce wind load – minimizing tower loading. Additionally, APXVNGLL26XTD-C offers integrated RET serial numbers available on antenna radome, which eases on-site commissioning and secures remote mapping from OMC.

“With the majority of the world imposing very strong constraints on permitted antenna width and length, it is very challenging for operators to add new frequencies when they have only one antenna per sector. We are always looking to expand our portfolio to include additional products that help ease these pain points for our customers,” said XX, RFS. “We have seen a clear trend in the adoption of quad and penta band antennas and are pleased to be able to offer our customers these new products to support an extremely broad range of frequencies from a single antenna as part of the RF X-TREME portfolio that they already know and trust.”

Trademarks: RFS® is a registered trademark of Radio Frequency Systems. All other trademarks are the property of their respective owners.

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 outdoor and indoor 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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