



RFS' Introduces New Three-column Multi-Band Antennas Supporting the 1.4GHz Frequency Band for LTE Applications

Ultra-wide band (1400-2690MHz) Design Supports New and Legacy Frequencies from a Single Antenna



Lannion, France, February 20, 2018 - [Radio Frequency Systems \(RFS\)](#), a global designer and manufacturer of cable, antenna and tower systems providing total-package solutions for wireless and broadcast infrastructure, today announced the availability of a [three-column antenna configuration to support the L-band \(1.4GHz\)](#). This antenna family is particularly critical as the 1.4GHz band continues to be reallocated from satellite communications to LTE applications. RFS' three-column platform is also ready to host additional

bands such as 3.5GHz and 5GHz. Newly licensed frequencies have the potential to provide today's mobile operators with much-needed capacity support for continually growing mobile network traffic.

RFS' three-column platform allows the addition of 1.4GHz band support alongside legacy low (694-960MHz) and high (1695-2690MHz) frequency bands without the need for any internal or external diplexing and will continue enabling MIMO 4x4 in these bands while offering high gain on all bands. The innovative ultra-wide band (1400-2690MHz) antenna design and latest features provide the best trade-off between gain and vertical and horizontal patterns from a single antenna, and is ideal for adding capacity and coverage to existing sites and integrating new frequency band.

RFS takes a building block approach to antenna development, efficiently tailoring existing and trusted platforms to serve as the foundation for future-proof new solutions. The three-column platform will allow the evolution up to 16-ports on a single antenna without any diplexing required. This platform gives operators the flexibility to deploy multiple radio technologies with several frequency bands and 4-way MIMO on one 50 cm (19.7 in)-wide antenna with best-in-class wind-load and PIM performances.

"RFS is a technology innovator committed to providing our customers around the world with the most flexible, high-performance and cost effective platforms that will enable them to support the frequencies of today - and easily integrate the next-generation frequencies of tomorrow," said Laurent Cruchant, Vice President Antennas Business Unit, RFS. "We understand the unrelenting network capacity demands that mobile operators face and the importance of supporting all low, high and middle band frequencies from a single antenna platform."

RFS' flexible three-column platform achieves the optimal tradeoff between RF performance and mechanical constraint, providing MIMO-enabling features (Port-to-port isolation, cross polar discrimination, squint) at the highest market standards. It is designed for low wind-load to minimize tower loading, as it is comparable in size to available dual-band antennas but it adds a third antenna path. Its 4.3-10 connector interface supports future-proof multi-band antenna deployments with optimized PIM stability.



RFS will debut its 10-port and 16-port three-column antenna models supporting 1.4GHz band in Booth 2LV24, Hall 2. at [Mobile World Congress Barcelona](#) taking place February 26-March 1, 2018.

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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