

Radio Frequency Systems carries off coveted EMMY award (The TV industry's equivalent of the Oscars)

Submitted by: Turtle Consulting Group

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Radio Frequency Systems (RFS) (<http://www.rfsworld.com/>), the global broadcast and cellular RF infrastructure specialist, has been honoured in the 60th Annual EMMY awards for its pioneering work on 'adjacent channel combiners' for TV broadcasting.

This innovative technology has saved the TV industry €billions by making it unnecessary to deploy new antenna systems and towers in order to run digital and analog systems concurrently during TV's digital switchover.

RFS received the coveted EMMY trophy at an awards dinner on January 7th - the opening night of the 2009 International Consumer Electronics Show in Las Vegas, USA.

Prior to this technology, the only practical way to run both digital and analog transmissions – especially using adjacent channels - at the same time would have been to install separate antennas, electronics and supporting infrastructure at the transmitter site. This would have added considerably to the cost of the site.

The technology honoured in this 60th year of awards for the most innovative technology enabling and improving TV broadcasting was RFS' 'RF Combiners for adjacent channels on common antenna systems'

Announcing the Tech EMMY awards, Peter Price president and CEO of the National Academy of Television Arts and Sciences (NATAS) said, "These are truly dynamic and exciting times for the television industry, and these EMMY winners were rewarded for their significant impact in enhancing the consumer's viewing experience." RFS was one of only thirteen to receive this, the industry's highest honour for technological achievement.

Receiving the award on behalf of RFS, Martyn Kemel, President Broadcasting, Towers and Defense said, "I'm very proud to receive this award on behalf of the broadcast engineering team at RFS, the technology they have developed has ensured that RFS stays right at the forefront of Digital TV broadcast technology – one of many world firsts for the Australia-based team."

The RFS directional waveguide adjacent channel combiner technology has already been deployed in 132 projects worldwide including Australia, Brazil, Bulgaria, China, Jordan, Japan, Korea, Indonesia, Russia, Spain, Syria, Taiwan, UK, USA and Vietnam. Many others are set to use the technology as they move towards deploying digital TV alongside existing analog services.

This innovative RFS solution realises two perfectly matched high power filters to form a combiner within a single assembly. The patented design achieves 8-pole filter performance from a six-pole assembly which saves both cost and more importantly space.

Unlike previous technologies, the RFS directional waveguide adjacent channel combiner covers more than

double the bandwidth of earlier waveguide combiners. These older systems were also very bulky – many over 15 feet (2.5m) high - making them too large for existing equipment rooms.

Other recent broadcast technology world firsts for RFS include distributed broadcast systems for digital TV in the USA where the use of multiple low-power transmission sites provides improved performance at lower cost compared to the conventional single-site high-power transmitter approach; and an innovative five-sided broadcast antenna which greatly improves operational health and safety by providing far better work-space for technicians inside the array and at the same time allows more channels to be transmitted concurrently due to RFS' world-leading broadband capability.

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Company background

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.

For more information visit: <http://www.rfsworld.com/>

<http://fs.turtleconsulting.co.uk/PICS/RFS0179%20Martyn%20Kemel.JPG>

Photo Caption; Receiving the award on behalf of RFS, Martyn Kemel, President Broadcasting, Towers and Defense said, "I'm very proud to receive this award on behalf of the broadcast engineering team at RFS, the technology they have developed has ensured that RFS stays right at the forefront of Digital TV broadcast technology – one of many world firsts for the Australia-based team."

<http://fs.turtleconsulting.co.uk/PICS/RFS0179%20Adjacent%20channel%20combiner.jpg>

Photo Caption; A marvel of design and "plumbing" the EMMY-winning combiners use 'waveguide technology' to achieve their world-leading results.

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