

NAB 2017: Rohde & Schwarz presents the world's first server-based exciter for ATSC 3.0

Rohde & Schwarz has developed the world's first IT server-based exciter solution for ATSC 3.0 broadcasts – the R&S SDE900. It provides broadcasters with an easy upgrade path for existing transmitters, such as the R&S THU9 and R&S THU9evo high-power transmitters from Rohde & Schwarz, to ATSC 3.0 and future standards. The R&S ATSC 3.0 solution will be demonstrated in the R&S booth SL1205 at NAB 2017, running from April 22-27 in Las Vegas.

Munich, April 10, 2017 – When developing the new ATSC 3.0 broadcast standard, the focus was on IP technologies that could provide broadcast network operators more flexibility in their service offerings. Rohde & Schwarz looked for new ways to implement the standard. The result is the R&S SDE900, a plug-in rack-mount module for the R&S Tx9 generation of energy-efficient transmitters, making it an easy upgrade path to the ATSC 3.0 standard. The R&S SDE900's software-based encoder generates the I/Q modulation data on its high-performance IT server. The field-proven R&S TCE900/TCE901 exciter from Rohde & Schwarz generates the COFDM waveform based upon the I/Q data.

“The R&S SDE900's software-based approach ideally prepares network operators for the ATSC 3.0 standard,” said Manfred Reitmeier, Senior Director of R&D Transmitter Systems, Rohde & Schwarz. “This high-performance IT server-based solution enables network operators to flexibly respond to signal processing requirements of the future. And our R&S TCE900 exciter offers the most powerful precorrection on the market with the high level of signal quality expected from Rohde & Schwarz.”

The R&S SDE900 will initially be available for high-power transmitters. These transmitters were part of the world's first broadcast in the ATSC 3.0 UHD standard when Seoul Broadcasting System in South Korea used the R&S THU9 to broadcast the first sports event in ATSC 3.0 last December.

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Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in all fields of wireless communications as well as in IT security. Founded more than 80 years ago, the independent company has an extensive sales and service network with subsidiaries and representatives in more than 70 countries. On June 30, 2016, Rohde & Schwarz had approximately 10,000 employees. The group achieved a net revenue of approximately EUR 1.92 billion in the 2015/2016 fiscal year (July to June). The company is headquartered in Munich, Germany, and also has strong regional hubs in Asia and the USA.

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