



WORK Microwave and IQ Spacecom Collaborate on End-to-End CubeSat Solution

One-Stop-Shop Solution Combines WORK Microwave's AX-60 IP Modem With IQ Spacecom's XLink Transceiver

HOLZKIRCHEN, Germany — Nov. 23, 2020 — WORK Microwave, a leading European manufacturer of advanced satellite communications equipment, today announced one of the first end-to-end solutions for CubeSat missions thanks to a new collaboration with IQ Spacecom, a leading provider of satellite radio solutions. By combining WORK Microwave's AX-60 IP modem with IQ Spacecom's XLink advanced transceiver system, a brand of IQ wireless GmbH, operators have an affordable, one-stop-shop solution for new space applications, including low Earth orbit (LEO) satellite missions for Earth observation.

"Traditionally, space and ground devices are purchased from two different companies, and the mission operator is left with two purchase processes and a wide range of questions regarding compatibility," said Mathias Reibe, Head of Engineering/CTO at IQ Spacecom. "Collaborating with WORK Microwave, we're able to solve this issue and guarantee a compatible end-to-end solution."

The end-to-end solution includes WORK Microwave's AX-60 19-inch rack-mount modem unit and XLink CubeSat-sized communication module from IQ Spacecom. Both platforms connect to IP networks and provide easy-to-use, straightforward connectivity. Supporting satellite communication for the ground and space segments, the solution allows operators to reliably perform telecommand and telemetry transmission tasks to and from satellites. Featuring space communication waveforms according to Consultative Committee for Space Data System's (CCSDS) Recommended Standards (Blue Books) 131.0 and 231.0, it is one of the first CubeSat solutions.

"Using the standardized CCSDS waveforms, we have created a cost-efficient, end-to-end solution for CubeSat missions, solving a critical challenge for the wider industry," said Jörg Rockstroh, Director, Business Development and Digital Products at WORK Microwave. "There are few companies with our longstanding experience and track record in the field of satellite

communications, and by making this solution available with our partner, IQ Spacecom, we can provide customers with the reliability that WORK Microwave is known for.”

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About IQ Spacecom, a brand of IQ wireless GmbH (www.iq-spacecom.com)

IQ wireless GmbH, located in Berlin, Germany, is a well-established business focusing on research and development of procedures, equipment, and systems for satellite communication (*IQ Spacecom*) as well as of optical sensors for environmental protection (*IQ FireWatch*). IQ wireless GmbH has a unique combination of innovation leadership and decades-long experience that make them the perfect partner for their customers.

IQ Spacecom comprises high-performance radio communication solutions providing flexible and highly efficient broadband data communication for small satellites, such as CubeSats. The equipment has been qualified for several years of operation in low earth orbit (LEO). Since summer 2019, the powerful XLink X band Transceiver SDR is available making high payload rates possible. Dedicated communication systems can be provided for instance for multi-access satellite solutions, inter satellite links (ISL) or IoT applications.

About WORK Microwave (www.work-microwave.com)

Headquartered in Holzkirchen (near Munich), Germany, and comprised of four operating divisions — Satellite Communication, Navigation Simulators, Defence Electronics, and Sensors and Measurement — WORK Microwave leverages over 30 years of experience to anticipate market needs and apply an innovative and creative approach to the development of frequency converters, DVB-S2/S2X equipment, and other digital signal processing technologies while maintaining the highest standards for quality, reliability, and performance.

WORK Microwave's Satellite Communication division develops and manufactures high-performance, advanced satellite communications equipment for telecommunications companies, broadcasters, integrators, and government organizations that are operating satellite earth stations, satellite news gathering vehicles, fly-aways, and other mobile or portable satellite communication solutions.

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Photo Caption: WORK Microwave's AX-60 IP modem combined with IQ Spacecom's XLink transceiver offers operators an affordable, one-stop-shop solution for new space applications.

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