



WORK Microwave Delivers Ka-Band Up- and Downconverters for the European Space Agency's Deep Space Network

New Converters Provide High Stability and Reliability for Deep Space Distances

HOLZKIRCHEN, Germany — Dec. 14, 2020 — WORK Microwave, a leading European manufacturer of advanced satellite communications equipment, today announced that it has delivered the first set of Ka-band up- and downconverters to the European Space Agency's (ESA) European Space Operations Center for deep space antennas. The deep space converters are optimized for telemetry, tracking, and command operations of different categories of ESA missions, with signals crossing more than 1.4 billion km of space.

"At deep space distances, there is only a very small amount of bandwidth and signal strength available. Space organizations need to be able to establish a stable and reliable connection to remote space probes," said Matthias Stangl, Director of RF Products at WORK Microwave.

"We're thrilled to launch our new deep space converters and assist the European Space Agency with deploying them for critical missions, providing the same high level of reliability that WORK Microwave is known for."

With a minimum impact of frequency stability (Allan Deviation) and phase noise on receive and transmit signals, as well as fully compensated on phase tracking and phase stability, WORK Microwave's converters enable ESA to maintain stable communication links to interplanetary missions.

The Ka-band up- and downconverters complete WORK Microwave's portfolio of already existing S-band and X-band designs for deep space applications.

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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 delivers first set of Ka-band up- and downconverters to European Space Agency's (ESA) European Space Operations Center for deep space antennas.

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