



## PRESS RELEASE

### ND SATCOM Selects WORK Microwave A-Series DVB-S2X Gateways

*ND SATCOM and WORK Microwave partner on seamless integration of future-proof modems*

**Friedrichshafen, Germany, Dec. 12, 2019** – For its leading network product portfolio SKYWAN 5G, with hybrid MF-TDMA and DVB-S2X, ND SATCOM selected WORK Microwave's A-Series DVB-S2X modulator platform.

The SKYWAN 5G DVB solution features a unique two-way broadband satellite communication network for high-quality services, combining the widely adopted DVB-S2/S2X transmission standard with the ND SATCOM MF-TDMA technology optimised for real-time traffic in mesh topologies. SKYWAN 5G DVB comprises a DVB-S2 outbound link and up to 16 configurable TDMA full-meshed carriers. The SKYWAN 5G DVB solution performs policy-based dynamic routing and leverages DVB-S2/S2X and TDMA satellite access for highly efficient bandwidth utilisation to best fit end-user applications.

Launched today, SKYWAN 5G's new release R1.6 features advances such as Pure Data Channels for efficiency-optimised meshed MF-TDMA topologies. In addition, the latest version of SKYWAN 5G introduces full support for WORK Microwave's A-Series product portfolio as the preferred DVB gateway for outbound transmissions.

ND SATCOM collaborated with WORK Microwave to seamlessly integrate the A-Series all-IP platform with SKYWAN 5G. The AT-60 IP Modulator was selected due to its high-performance features, including a flexible SDR (Software Defined Radio) architecture that was customised for SKYWAN 5G. Offering support for DVB-S2X up to 256APSK, the AT-60 IP Modulator and the AT-80 wideband variant are the perfect platforms for a variety of applications, from low to very high throughput. "We continue to seek synergistic opportunities that uphold the excellence our brand represents and our customers expect. The integration of WORK Microwave's A-Series into our latest SKYWAN 5G release does exactly that," said ND SATCOM CEO Alexander Mueller-Gastell.

By supporting DVB-S2X extensions, WORK Microwave's AT-60 IP modulator embedded in the DVB Gateways provide operators with a future-proof platform that offers smaller roll-offs, advanced filtering, and higher modulation schemes for increased efficiency gains.

"Today's satellite operators are looking for high-performance, cost-effective satcom solutions, and that's why we've teamed up with ND SATCOM," said WORK Microwave CEO Thomas Fröhlich. "Combining the latest SKYWAN 5G DVB solution with our AT-60 IP Modulator, end-users can achieve unparalleled efficiency and flexibility for a wide range of applications."

WORK Microwave's AT-60 IP modulator is one of the industry's only solutions that comes predistortion-ready for automatic group delay and nonlinearity compensation. Using this capability, operators can



mitigate the negative effects in satellite filters and amplifiers while reducing power and increasing beam coverage, throughput, and availability.

The latest SKYWAN 5G solution featuring WORK's A-Series ensures high-performance DVB outbound link capabilities, including DVB Gateway redundancy and ACM (Adaptive Coding and Modulation) on the DVB outbound path toward the SKYWAN 5G remotes. DVB Gateway management is integrated in the SKYWAN 5G NMS, which allows on-the-fly parameter changes as part of network-wide reconfigurations of DVB services.

The SKYWAN ODG200 DVB Gateway — based on the very reliable WORK Microwave DVB-S2X modulator module combined with IP encapsulation and traffic shaping — will be replaced by the WORK Microwave A-Series platform. With the new SKYWAN 5G R1.6, both DVB Gateway products are fully supported. A mix of ODG-200 and AT-60 at different sites within the same network is feasible; SKYWAN 5G terminals use the same signalling protocol for terminal registration and ACM with both products.

#### **About ND SATCOM**

With over three decades of experience, ND SATCOM is the premier supplier of and integrator for innovative satellite communication equipment systems and solutions to support customers with critical operations anywhere in the world. Customers in more than 130 countries have chosen ND SATCOM as a trusted and reliable source of high-quality and secure turnkey and custom system-engineered communication solutions. The company's products and solutions are used in more than 200 transnational networks in government, military, telecom and broadcast environments. ND SATCOM's flagship product, the SKYWAN platform, enables international users to communicate securely, effectively and quickly over satellite.

#### **About WORK Microwave**

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.

#### **Press Contact**

Arzu Evlek, Director Marketing & Communication, ND SATCOM

E-Mail: [arzu.evlek@ndsatcom.com](mailto:arzu.evlek@ndsatcom.com)

Phone: +49 7545 939 8751

Lisa Hayes, Marketing, Communications Manager, WORK Microwave

Email: [lisa.hayes@work-microwave.com](mailto:lisa.hayes@work-microwave.com)

Phone: +49 8024 6408 204