

At Satellite 2018, Teledyne Paradise Datacom Launches 3 New Products:

CubeSat LEO Modem, 200W Ka GaN SSPA, & Touch Screen SSPA

State College, PA – March 7, 2018 – Next week at Satellite 2018, [Teledyne Paradise Datacom](#) (Paradise) is unveiling 3 new innovative products for the Satcom modem and SSPA (solid state power amplifier) markets. Learn more about these new products at Satellite 2018 by visiting the Teledyne Defense Electronics booth #619.

The [QubeFlex™](#) Groundstation Modem for SmallSat Constellations. The latest innovation in Q-Series software-defined modems from Paradise, QubeFlex™ is engineered specifically for CubeSats and smallsats in general. The modem is a readily upgradeable and flexible product that provides high data rate support for Intelsat, CCSDS telemetry and other common space transmission standards to meet the challenges of LEO (low earth orbit) operations. QubeFlex™ handles a wide range of common space packets protocols as well as unformatted data, and helps Operators cope easily with the large Doppler frequency shifts that are common to LEO satellites.

This new modem provides direct handling of S band, saving expensive up/down conversion. It also converts the data stream to IP output at the ground station, thus providing Operators with convenient onward computer data capture and analysis. QubeFlex™ delivers further advantages for smallsat ground station services with forward error correction, ensuring data is protected against transmission loss. High data rates ensure maximum data can be received on each satellite pass.

“In effect, ground station Operators can achieve faster time to market because QubeFlex is thoughtfully designed to save them having to constantly reinvent the wheel,” said Colin Mackay, Vice President of Modem Engineering for Paradise. “As part of our end-to-end comms solution, it replaces the ‘do-it-yourself’ approach with a professional off-the-shelf solution that can easily adapt to your evolving current and future needs.”

The [200W Ka-band GaN Solid State Power Amplifier \(SSPA\)](#). At 200W, this compact outdoor SSPA sets a new industry standard for solid state power amplification in the Ka-band GaN market. Operating in the 27.5 to 31.0 GHz range, this SSPA provides 200W CW saturated output power, and 100W linear output power. Building further on the Teledyne Paradise Datacom heritage of the rugged compact outdoor SSPA package, this new SSPA is the highest power solid state technology available in the Ka-band market.

The new [Touch Screen SSPA](#). Teledyne Paradise Datacom has developed a new 3RU Rack Mount SSPA with a user-friendly Touch Screen Display. The display can be customized by users by selecting up to eight (8) status parameters to monitor on the Custom Status Menu. Features of the new Touch Screen Display include System Fault Status, a ‘Set Signal Attenuation’ option, a Redundant System Mimic Panel, customizable Status, Fault, and ‘Quick Keys’ displays, and an N+1 Master System Summary. The Touch Screen is available for all Paradise Rack-Mountable amplifiers.

“These new products demonstrate our continuing commitment to push product boundaries and deliver exceptional value to our customers,” said Steve Turner, Vice President of RF Engineering for Paradise.

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ABOUT TELEDYNE PARADISE DATACOM

Teledyne Paradise Datacom designs, manufactures and sells satellite modems, solid state power amplifiers (SSPA), low noise amplifiers (LNA), block up converters (BUC) and associated redundancy subsystems. We deliver satellite communications products around the world and have unparalleled experience in satellite communications products. At Paradise, we focus on creating significant product differentiators and innovative architectures in order to make ourselves the supplier of choice in the satcom industry. www.paradisedata.com.

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