



## **THINKOM SUCCESSFULLY DEMONSTRATES FIRST AERO TERMINAL CONNECTIVITY WITH SES' O3B MEO SATELLITES**

### ***In-Flight Demo Trials to Follow in Coming Months***

HAWTHORNE, Calif. – Sept. 25, 2018 – [ThinKom Solutions, Inc.](#) today announced the successful completion of the first ground test of its ThinAir® Ka2517 Ka-band phased-array satellite antenna with the SES' O3b constellation of medium-Earth orbit (MEO) satellites.

The test was conducted in August 2018 at ThinKom's facility in Hawthorne, California, in collaboration with SES Networks.

For the ground test, a vehicle-mounted ThinKom Ka2517 aeronautical antenna acquired successive O3b MEO satellites at 13-degree elevation and successfully tracked them for 30-minute periods while the satellites traversed from west to east.

ThinKom said this test is a precursor to a flight test, expected to take place before the end of 2018. This will be the first in-flight demonstration of a ThinKom antenna communicating through a non-geostationary (NGSO) constellation and will demonstrate the ability of ThinKom's phased-array antenna to auto-track and perform seamless beam switching through aircraft roll, pitch, and yaw motions.

O3b is the first NGSO satellite constellation capable of delivering commercial broadband communication services. The constellation orbits the Earth at about 8,000 km altitude, along an equatorial path, allowing much larger visible Earth angles than low-Earth orbit (LEO) constellations currently being evaluated.

"ThinKom's unique patented low-profile phased-array antennas have been designed for interoperability on geostationary (GEO) and MEO satellites with the agility and switching speed to move seamlessly from beam-to-beam and constellation-to-constellation. Agility tests have proven that our antenna achieves switching speeds of less than one second, more than fast enough to support beam switching with no interruption in connectivity," said Bill Milroy, ThinKom Chief Technology Officer.

"The ground test, and the coming aero tests, are important steps in showing the ability of the ThinKom antenna to operate on the O3b MEO satellite network, and will pave the way to full commercialization," said Milroy.

"Innovation in terminal technology is key for scaling SES Networks' proven MEO system for mass connectivity. We're delighted to collaborate with ThinKom and to continue growing a partner ecosystem that will redefine the standard for our industry," said Stewart Sanders, Executive Vice President of Technology at SES Networks. "This development aligns with our aim

to make it faster, easier and more affordable to expand service reach to our customers and their end users.”

For more on ThinkKom’s LEO/MEO/GEO interoperability, see this [video](#).

Download a high-resolution image at:

<https://www.dropbox.com/sh/ic1oxh8zyjzad/AACdLX5hWHrM2z908SDDjCOaa?dl=0>.

### **About ThinkKom Solutions, Inc.**

ThinkKom Solutions, Inc. is a leading provider of innovative highly affordable compact broadband antennas and products for aeronautical, vehicular and man-portable applications. The company’s primary products uniquely enable near-term worldwide availability of high-data-rate connectivity in the X-, Ku-, Ka- and Q-bands. ThinkKom offers a range of reliable, proven technology solutions for the consumer, enterprise, first responder, civil, military and intelligence communities. For more information about ThinkKom Solutions, please visit [www.thinkom.com](http://www.thinkom.com).

### **About SES/O3b**

SES is the world’s leading satellite operator with over 70 satellites in two different orbits, Geostationary Orbit (GEO) and Medium-Earth Orbit (MEO). It provides a diverse range of customers with global video distribution and data connectivity services through two business units: SES Video and SES Networks. SES Video reaches over 351 million TV homes, through Direct-to-Home (DTH) platforms and cable, terrestrial, and IPTV networks globally. The SES Video portfolio includes MX1, a leading media service provider offering a full suite of innovative services for both linear and digital distribution, and the ASTRA satellite system, which has the largest DTH television reach in Europe. SES Networks provides global managed data services, connecting people in a variety of sectors including telecommunications, maritime, aeronautical, and energy, as well as governments and institutions across the world. The SES Networks portfolio includes GovSat, a 50/50 public-private partnership between SES and the Luxembourg government, and O3b, the only non-geostationary system delivering fibre-like broadband services today. Further information is available at: [www.ses.com](http://www.ses.com)

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