



# Traveling-Wave Tube Amplifiers (TWTAs) for Space

Originally developed to meet the transmission needs of space missions, Stellant's Traveling-Wave Tube Amplifiers (TWTAs) are small-size, low-mass, high-frequency, high-reliability amplifiers with unprecedented output power, bandwidth, and efficiency.

Stellant's Traveling-Wave Tubes Amplifiers (TWTAs) are key components for satellite communications.

We have six decades of experience developing TWTs/TWTAs for space-based applications and recently introduced our Q-Band 200 W Downlink TWTA and V-Band 200 W Uplink TWT to better serve the high-throughput satellite market.

The key to a higher throughput satellite for these operators is a higher-power, wideband downlink signal. We are reshaping the TWTA market by introducing new, revolutionary technologies to accommodate Q-/ V-band needs.

**In Orbit: > 4000**

**Operating Hours: 280 million | Spot FIT Rate: < 100**

**The ONLY Vertically Integrated  
Space Traveling Wave Tube  
Amplifier (TWTA ) Supplier in  
the World**

**The ONLY Manufacturer of  
Space-qualified Traveling Wave  
Tubes (TWTs) in the USA**



S, C, X, Ku, Ka-Band Dual LCTWTA

S, C, X, Ku, Ka-Band Single LCTWTA

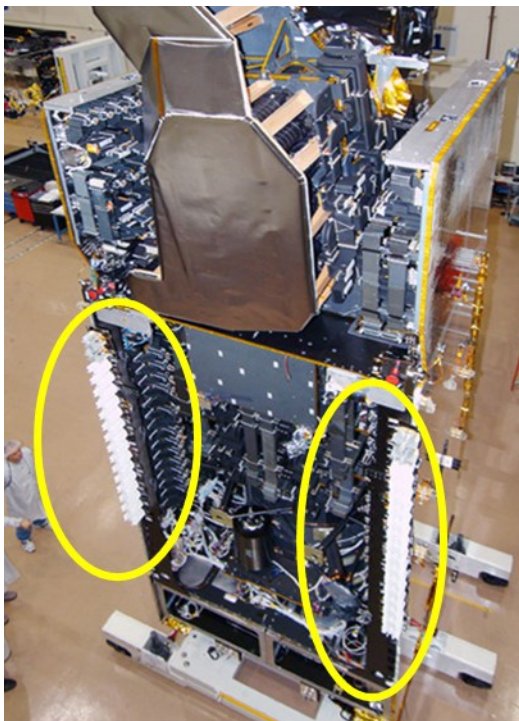
Ka-/ Q-Band LCTWTA

Q-/ V-Band TWTA



# Traveling-Wave Tube Amplifiers (TWTAs) for Space

## STELLANT'S RADIATION-COOLED TWTAs



Our TWTAs Still Operating on Voyager Since 1977

**Stellant Systems** is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world. We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical & scientific and industrial customers worldwide.

### Headquarters

3100 Lomita Blvd.  
Torrance, California 90505  
T: 310-517-6000  
[info@stellantsystems.com](mailto:info@stellantsystems.com)

1035 Westminster Dr.  
Williamsport, Pennsylvania 17701  
T: 570-326-3561

107 Woodmere Rd.  
Folsom, California 95630  
T: 916-351-4500

[www.StellantSystems.com](http://www.StellantSystems.com)

