



# OrBeam MIL 5534 Ku-Band Electronically Steerable Antenna (ESA)

## Revolutionizing Connectivity Across Platforms and Orbits

Introducing Orbit Communication Systems' Ku-Band Electronically Steerable Antenna (ESA), designed to provide unparalleled connectivity for a variety of mobile platforms. Our Ku-Band ESA leverages cutting-edge technology to deliver high-speed, reliable communications across multiple platforms and orbits.



### Key Features

- **Multi-Orbit Capability:** Seamlessly connects with GEO, MEO, and LEO satellites, ensuring continuous and reliable communication.
- **Multi-Platform Integration:** Ideal for use on aircraft, maritime vessels, and land vehicles, providing versatile connectivity solutions.
- **High Performance:** Achieves exceptional G/T and EIRP values, ensuring robust and high-speed data transmission.
- **Electronically Steered:** Fully electronic with no moving parts, offering enhanced reliability and reduced maintenance.
- **Modular Design:** Allows scalable solutions tailored to specific customer needs, optimizing performance and cost-efficiency.

### Applications

**Government and Military:** Secure and reliable communications for mission-critical operations.

**Aviation:** High-speed in-flight connectivity for airborne platforms.

**Maritime:** Robust connectivity for vessels, ensuring seamless communication at sea.

**Land Mobility:** Reliable communication for vehicles.

### Specifications Multi-Orbit Performance Antenna

<b>Frequency</b>	Transmit 13.75 – 14.5 GHz, Receive 10.7 – 12.75 GHz
<b>Polarization</b>	Electronically selectable (RHCP/LHCP/H/V)
<b>EIRP</b>	35 dBW at boresight, 31.5 dBW at 30° elevation
<b>G/T</b>	6 dB/K at boresight, 4.5 dB/K at 45° elevation
<b>Configuration/Size (LxW)</b>	55cm x 34cm (21.6 in x 13.4 in)