

OrBeam 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.

Specifications Multi-Orbit Performance Antenna

Frequency	Transmit 13.75 – 14.5 GHz, Receive 10.7 – 12.75 GHz
Polarization	Electronically selectable (RHCP/LHCP/H/V)
EIRP	35 dBW at boresight, 31.5 dBW at 30° elevation
G/T	6 dB/K at boresight, 4.5 dB/K at 45° elevation



Applications

Commercial Aviation: High-speed in-flight connectivity for passengers and crew.

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

Land Mobility: Reliable communication for vehicles.