

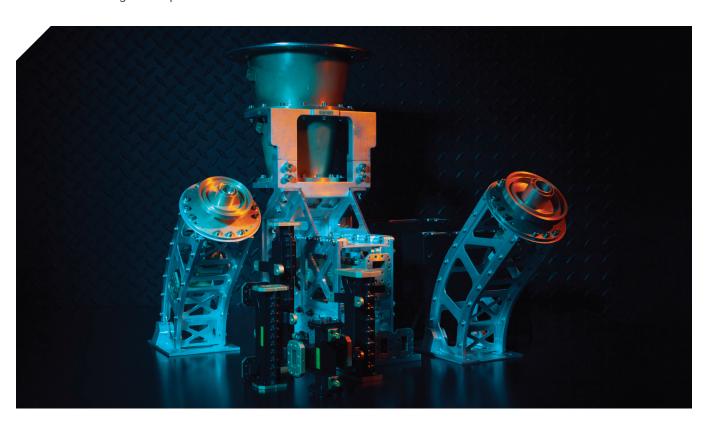
ANTENNAS

TELEMETRY, COMMAND & RANGING SUBSYSTEM PRODUCTS



OVERVIEW

The antennas, designed and qualified for geostationary satellites, are responsible for receiving RF signals sent from ground or transmitting RF signals generated on-board using the transmitters, to ground. Horn antennas and hemispherical antennas are designed, developed and tested by CTech for satellites using state-of-the-art design and manufacturing techniques.



SPECIFICATIONS HORN ANTENNAS HEMISPHERICAL ANTENNAS Program Specific **Operating Frequency** Gain > 20dBi for telemetry links > -2.5dBi (@65°) > 20dBi for telecommand links **VSWR** 1.12:1 (with OMT) 1.1:1 Polarization Linear (V and/or H) Circular (RHCP/LHCP) Circular polarization also available **Isolation Between Input Ports** > 30 dB Cross Polarization > 30 dB **Axial Ratio** < 2dB



SPACE QUALIFIED

Fully space qualified equipment for geostationary satellites.



CUSTOMIZABLE

Designed and optimized according to customer needs.



HIGH RELIABILITY

Designed for more than 15 years of lifetime in geostationary orbit with lowest cost possible.



LOW MASS

Mechanical design is optimized for mass to meet mission specific requirements.

