



Helical Communication Technologies (HCT)

United States · helicomtech.com

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as of 20 August 2026



Helical Communication Technologies (HCT)

Helical Communication Technologies (HCT) is a Florida-based antenna manufacturer focused on spacecraft applications. The company designs and produces deployable helical and quadrifilar helix antennas covering VHF, UHF, S-band and higher frequencies. Its Helios deployable antenna family packs a full-size helical radiator into a compact stowed volume compatible with CubeSat form factors, providing circular polarization and high gain for communication and data-downlink applications.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Anechoic Chamber Testing

HCT provides anechoic chamber testing for multi-band frequency antennas and communication equipment, modeling patterns across various radio frequencies.

Thermal & Vibration Management

HCT offers services for thermal and vibration management, crucial for the reliability of space-based and ground-based communication equipment.

PRODUCTS

Product catalogue



HELICAL COMMUNICATION TECHNOLOGIES (HCT)

Helios deployable antenna

The Helios Deployable Antenna can be customized to operate from 400Mhz to 3000Mhz. The HCT Helios series of antennas can accommodate several operational purposes from near...

Manufacturer	HCT
Lead time	90 days
price on request	



HELICAL COMMUNICATION TECHNOLOGIES (HCT)

Multi-Band Antenna

An omni-directional, patent-pending multi-band IoT antenna series covering 100-3000MHz, sized to fit within a 6U satellite chassis and used for satellite and ground-based tracking

Frequency range	100-3000MHz
Coverage pattern	Omni-directional, hemispheric communications coverage
Elevation coverage	Down to -5 degrees below the horizon
Configuration options	Nested or linear, holding multiple frequency antennas within the same housing
Storage compatibility	Can be stored into a 6U satellite chassis
price on request	



HELICAL COMMUNICATION TECHNOLOGIES (HCT)

QHA Deployable Antenna

Deployable Quadrifilar Helical Antenna for LEO small satellites, stowable in 1U-12U modules, covering 350 MHz to 3 GHz with patent-pending deployment mechanism.

Antenna Type	Quadrifilar Helical Antenna (QHA), deployable
Frequency Range	350 MHz - 3 GHz
Polarization	Circular
Standard Gain	~3 dBic (near-hemispheric)
High-Gain Variant	Up to 12 dBi (deep space applications)
Stowage	1U to 12U CubeSat modules
Flight Heritage	Since December 2018, multiple missions

price on request

Contact Helical Communication Technologies (HCT)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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<https://www.helicomtech.com/>

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