

NEWSPACE MARKET · COMPANY PROFILE

ThinKom

ThinKom Solutions, Inc.

United States · founded 2000 · thinkom.com

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as of 20 August 2026



ThinKom Solutions, Inc.

ThinKom Solutions is a California-based antenna technology company that developed and commercialized the patented VICTS (Variable Inclination Continuous Transverse Stub) phased array antenna architecture. Founded in 2000 and headquartered in Hawthorne, California, ThinKom's VICTS technology provides electronically steered wideband beam steering without active T/R modules, semiconductor phase shifters, or the associated cost, complexity, and thermal management challenges. VICTS antennas achieve beam steering using two mechanically rotating disk layers embedded with continuous transverse electromagnetic stubs that create a steerable phase gradient across the aperture. This enables simultaneous wideband transmit/receive with full-hemisphere coverage, fast beam reacquisition, and excellent efficiency — at a fraction of the cost and complexity of conventional active phased arrays. ThinKom antennas have been deployed on thousands of commercial aircraft operated by leading global airlines for Ku-band and Ka-band in-flight connectivity. In the government and defense market, ThinKom supplies VICTS antennas for military ISR aircraft, HALE UAVs, and SATCOM-on-the-move applications. The company is also developing VICTS-based antennas for LEO constellation ground stations (gateway arrays) and space payload applications. ThinKom licenses the VICTS technology to antenna OEMs for integration into custom products and systems, and engages in co-development arrangements with satellite operators and system integrators.

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

Certifications for Antenna Operation

ThinKom's antennas hold various certifications, including SES type certification and aviation authority certifications (GACA, EASA), confirming their operational compliance.

Customizable Ground Station Configuration

ThinKom configures modular ground stations to meet customer-specific network, SWaP, and performance requirements for various missions.

Turnkey Installation Kit Integration

ThinKom provides integration of its antenna solutions as a turnkey installation kit for high-speed inflight internet service on aircraft.

Product catalogue



THINKOM SOLUTIONS, INC.

Commercial IFC Antennas

ThinKom's ThinAir family of low-profile phased-array in-flight connectivity (IFC) antennas that provide high-capacity satellite broadband connectivity for commercial aircraft across

Orbit Compatibility	Multi-Orbit – switches seamlessly between LEO, MEO, GEO and HE0 with the same antenna
Downlink Data Rate	Up to 800 Mbps
Uplink Data Rate	Up to 200 Mbps
Scan Performance	Superior low elevation scan performance over any other phased array antenna, allowing for
Efficiency	Significantly more efficient than any other phased array of the same size
Reliability	Highest guaranteed antenna MTBF on the market
Motor Type	High-torque brushless DC motors, no contacting parts, enables rapid satellite switching

price on request



THINKOM SOLUTIONS, INC.

Mobile Satcom Antennas

Mobile Satcom Antennas are designed for vehicle-mounted satellite communication, offering high spectral efficiency and compatibility with wide-beam and HTS Ku-band services.

Compatible with	wide-beam and HTS Ku-band services
High spectral efficiency	up to 2 bits/Hz
Qualified for operation on	Intelsat Flex networks
Mounts on	any vehicle roof rack
Network and modem	agnostic

price on request

datasheet



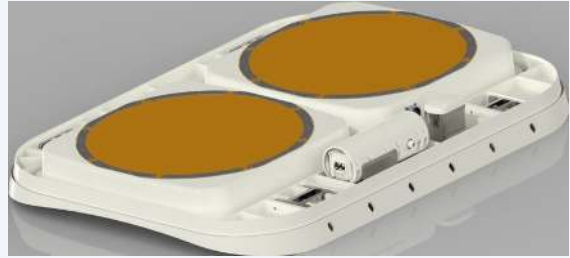
THINKOM SOLUTIONS, INC.

Portable Satcom Antennas (ThinPack family)

The ThinPack family of portable Satcom antennas are lightweight, compact, and require no assembly, offering high spectral efficiency for Ku and Ka-band services.

Spectral efficiency up to 2 bits/Hz

[price on request](#) [datasheet](#)



THINKOM SOLUTIONS, INC.

ThinAir Commercial IFC Antennas

ThinKom's ThinAir family of phased-array in-flight connectivity (IFC) antennas provide high-capacity, multi-orbit satellite connectivity for commercial airline passengers.

Motor type High-torque brushless DC motors

RF layers Three, entirely passive

Electronics location Hosted in cabin (protected)

Profile Low profile, streamlined shape; lowest drag phased array on the market

Orbit compatibility Multi-orbit: LEO, MEO, GEO and HE0 with the same antenna

Downlink data rate Up to 800 Mbps

Uplink data rate Up to 200 Mbps

[price on request](#) [datasheet](#)



THINKOM SOLUTIONS, INC.

VICTS Gateway Array Antenna

High-power VICTS gateway array antenna for LEO and MEO satellite constellation ground stations, delivering high EIRP for feeder link uplink applications.

Technology VICTS

Applications LEO/MEO ground station feeder link

Frequency Bands Ka-band and V-band

Tracking Simultaneous multi-satellite, rapid handover

Installation Fixed-site outdoor

[price on request](#)



THINKOM SOLUTIONS, INC.

VICTS Ground Terminal – Mobile and Fixed SATCOM

VICTS-based ground SATCOM terminal for mobile and fixed deployments. Rapid beam reacquisition enables SATCOM-on-the-move on vehicles, ships, and temporary sites.

Technology VICTS

Applications Ground vehicle SATCOM, maritime, deployable sites

Frequency Bands Ku-band, Ka-band

Reacquisition Time <1 second

Orbit Compatibility GEO and LEO

[price on request](#)



THINKOM SOLUTIONS, INC.

VICTS Phased Array – Commercial In-Flight Connectivity Antenna

ThinKom's patented VICTS phased array antenna for commercial aviation in-flight connectivity on GEO and LEO satellite networks. Low-profile, high-gain, no T/R modules.

Technology	VICTS (Variable Inclination Continuous Transverse Stub)
Frequency Bands	Ku-band and Ka-band
Orbit Compatibility	GEO HTS and LEO constellations
Beam Steering	Full hemispherical, no T/R modules
Certification	Aircraft-certified (linefit and retrofit)
Applications	Commercial aviation in-flight connectivity

price on request



THINKOM SOLUTIONS, INC.

VICTS Space Payload Antenna

VICTS antenna technology adapted for space payload applications including satellite inter-satellite links and high-data-rate downlinks from LEO platforms.

Technology	VICTS (space-adapted)
Applications	ISL, high-rate downlink, LEO payload
Advantages	No T/R modules – reduced mass, power, and failure modes
Business Model	Technology licensing and co-development

price on request



THINKOM SOLUTIONS, INC.

VICTS Special Mission Aero Antenna

VICTS antenna for military ISR aircraft, government special mission platforms, and HALE UAVs requiring high-data-rate SATCOM connectivity with low-observable profiles.

Technology	VICTS
Frequency Bands	X-band, Ku-band, Ka-band (MILSATCOM)
Applications	ISR aircraft, HALE UAV, government special mission
Qualification	Military environmental standards
Features	Anti-jam, encryption compatible, multi-orbit

price on request

Contact ThinKom Solutions, Inc.

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.

<https://newspacemarket.com/companies/thinkom-solutions/>

<https://www.thinkom.com>

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