



HTA-Aerostat (Tactical Aerostat Antennas)

Syntonics' **HTA-Aerostat** tactical aerostat antennas are lightweight, rugged, broadband dipole antennas optimized for airborne use on weight-constrained aerostat platforms. These antennas are already deployed on the U.S. Army's Persistent Threat Detection System (PTDS) and Persistent Ground Surveillance System (PGSS) aerostat platforms. Unlike heavy monopole antennas designed for trucks or airplanes, HTA-Aerostat are dipoles — no ground plane is necessary to deliver near-theoretical all-azimuth gain and low VSWR across the band.

	<p>HTA-Aerostat-VULOS — Tie to aerostat (shown at left) or hang from mounting point (shown at right)</p> <p><i>Low VHF + UHF frequency bands</i></p> <ul style="list-style-type: none"> » 30-88 MHz + 225-450 MHz <p><i>Construction (ask Factory for options)</i></p> <ul style="list-style-type: none"> » Rigid with integral tie/mounting points » TNC female connectors » White UV-resistant finish; other colors available
	<p>HTA-Aerostat-VHF — Hang from confluence point using supplied cables, snap around tether during deployment</p> <p><i>Low VHF frequency band</i></p> <ul style="list-style-type: none"> » 30-88 MHz <p><i>Construction (ask Factory for options)</i></p> <ul style="list-style-type: none"> » Flexible with lengthwise slot to snap around tether » TNC female connectors » White UV-resistant fabric skin; other colors available
	<p>HTA-Aerostat-UHF — Hang from any convenient tie point</p> <p><i>UHF frequency band</i></p> <ul style="list-style-type: none"> » 225-450 MHz <p><i>Construction (ask Factory for options)</i></p> <ul style="list-style-type: none"> » Rigid with integral aerostat tie point » Lightweight closed-cell foam core, fiberglass skin » TNC female connector » White UV-resistant finish; other colors available
	<p>HTA-Aerostat-Lband: Mount vertically using integral handle (shown at right on optional support structure)</p> <p><i>L frequency band</i></p> <ul style="list-style-type: none"> » 1200-2000 MHz <p><i>Construction (ask Factory for options)</i></p> <ul style="list-style-type: none"> » Rigid with tubular handle for mounting » Includes 8-ft LMR-240 cable terminated with TNC male connector » White UV-resistant finish; other colors available
	<p>HTA-Aerostat-HiGainCellular: Mount to keel of aerostat</p> <p><i>One frequency band, two polarizations</i></p> <ul style="list-style-type: none"> » Gain and frequency band specified by customer (12 dBi x 700-800 MHz shown) » Vertical (V-pol) and horizontal (H-pol) polarizations <p><i>Construction (ask Factory for options)</i></p> <ul style="list-style-type: none"> » Antenna mounts in supplied support truss; support truss details vary with aerostat » Self-stabilizing in pitch and roll using integral INS and pitch/roll servos » Two TNC female connectors

Contact us at Sales@SyntonicsCorp.com or 1.877.968.6642 or visit us at <http://www.SyntonicsCorp.com>