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C172-1-1 AIRBORNE UHF SATCOM ANTENNA

This high-power (1,000-watt average), ultra-high frequency (UHF) satellite communications (SATCOM) antenna is designed for use on military helicopters and fixed-wing aircraft.

The C172-1-1 dual-mode batwing antenna is an extremely lightweight, Mach 0.88 capable antenna, providing two individual antennas for complete hemispheric coverage. The low-angle mode provides quarter wavelength monopole performance for the elevation sector of 0 to 40 degrees, while the upper mode crossed dipole provides coverage from zenith to 40 degrees elevation.

External 0-90-degree couplers, such as our H26-1 and H29-2-1, are required to develop the upper-mode circular polarization and are connected as indicated below.

ELECTRICAL		
Frequency range	240–400 MHz	50 ohms
VSWR	Low angle High angle	2.5:1 max 1.5:1 max (with external 0-90-degree coupler)
Gain	Low angle High angle	Average within 2 dB of a quarter-wave stub +6.0 dBic typical at zenith
Polarization	Low angle High angle	Vertical Right hand circular
Power handling	1000 W avg	
MECHANICAL		
System interconnections		
Antenna port		**Hybrid port**
J8	Low angle	-
J9	High angle	J2
J10	High angle	J3
Weight	7.5 lbs max	
Accessories		
0-90-degree hybrid	H29-1 H26-1	1000 W avg 200 W avg
Phase matched cable set	U69-1 U69-2	1000 W 200 W
Load termination	1200018-001	200 W system only
Adapter plate	U228-1	
ENVIRONMENTAL		
Military	MIL-E-5400 class 2	

KEY FEATURES

- Dual-mode design
- 1,000-watt power handling
- External load termination
- Lightweight

For further details and specifications, contact the factory at antenna.info@L3Harris.com

C172-1-1 Airborne UHF Satcom Antenna

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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