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C196-1-1 UHF SATCOM ANTENNA

The C196-1-1 antenna provides satellite communications (SATCOM) capabilities for high-performance aircraft, where installation volume is severely restricted. A fully conformal design, the C196-1-1 has been designed to endure harsh environments endemic in these platforms while providing hemispherical radiation pattern coverage.

The C196-1-1 combines the latest of multielement patch technology with aperture coupling to create the smallest full-function ultra-high frequency (UHF) SATCOM for any aircraft. Present configurations feature a flat radome surface. However, next generation antennas are planned to be able to conform to any skin profile.

ELECTRICAL	
Frequency range	
Rx	252-270 MHz
Tx	292-309 MHz
VSWR	1.5:1
Gain (Boresight)	0-2.5 dBic
Axial ratio	3 dB max
RF power handling	120 watts CW
MECHANICAL	
Weight	12.5 lbs max
Size	Consult factory
MTBF	50,000 hrs
Finish	Polyurethane, gray
ENVIRONMENTAL	
Gain (30° above horizon)	-1 dBic min
-40°C to 90°C	-54° to +250°F
Altitude	50,000 ft
Military	MIL-E-5400 Qualified, Class II, Mach 1+ MIL-STD-810



KEY FEATURES

- > Conformal design
- > Rugged for survivability in the harshest environments
- > Ideal for both fixed- and rotary-wing aircraft
- > Next generation variants in development to conform to any skin profile

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

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Nonexport-controlled Information

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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