

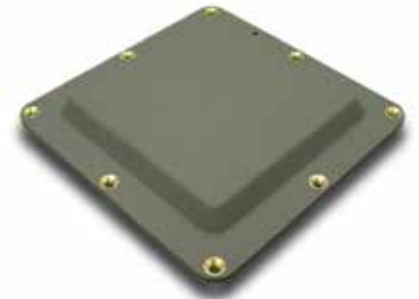


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N100-6 GPS ANTENNA

CUTTING-EDGE TECHNOLOGY

The N100-6 GPS antenna offers an innovative polarimetric solution for multiple element outputs and has been designed to provide a significantly reduced size aperture for anti-jam GPS reception over the full military GPS M-code bandwidth. The N100-6 footprint is 7 inches by 7 inches and provides a four-element antenna aperture with seven outputs similar to larger arrays. It is designed to receive right-hand circularly polarized (RHCP) signals and couples the radio frequency signal to the antenna electronics (not supplied by L3Harris) via seven coaxial cables. When used in conjunction with antenna electronics equipment such as GPS Anti-Jam Systems-1 or Advanced Digital Antenna Production null steering electronics, the four-element array is used to adaptively steer nulls in the presence of interfering jamming signals. Microstrip patch type radiators provide a low-profile package while a hybrid feed incorporated in the reference element allows operation over a wide temperature range without the temperature induced detuning. The three auxiliary elements provide dual orthogonal linear polarization permitting additional degrees of freedom as compared to conventional four-element arrays. It is for applications such as the AV-8B, helicopters and numerous classes of unmanned aerial system platforms.



KEY FEATURES

- > Four-element, seven-output polarimetric array
- > L1, L2 with M-code bandwidths
- > Excellent element repeatability
- > Small size for space-constrained platforms

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

ELECTRICAL	
Frequency range	L1 1575.42 ± 12.0 MHz L2 1227.2 ± 12.0 MHz
VSWR	
Reference element	1.5:1
Auxiliary element	3.0:1
Gain	>-3.5 dBic over 95% of 160° cone at band centers
Polarizaion	
Reference element	RHCP
Auxiliary element	Linear
Null depth	>20 dB typ
Radiation pattern	Hemispherical
Power handling	Receive only
MECHANICAL	
Weight	3.0 lbs max
Finish	White, grey
ENVIROMENTAL	
Military	MIL-E-5400 MIL-STD-202 MIL-STD-810

All data contained herein is subject to change without notice. (Consult with factory for mounting specifications.)

N100-6 GPS Antenna

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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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