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# N201 SERIES CONFORMAL GPS CONTROLLED RECEPTION PATTERN ANTENNA (CRPA)

## CUTTING-EDGE TECHNOLOGY

The N201 series GPS antenna has been designed to provide a conformal reduced-size aperture for anti-jam GPS reception over the full military GPS M-code bandwidth. The N201 cavity penetration dimensions are a mere 4.75 inches long by 3.75 inches wide and less than 1 inch deep (excluding connectors). Typical flange dimensions are 6.5 inches long by 5.5 inches wide.

The antenna assembly is a four-element antenna aperture. It is designed to receive right-hand circularly polarized (RHCP) radiated signals from NAVSTAR GPS satellites and couple the radio frequency signal to the antenna electronics (supplied by others) via four coaxial cables. The four-element array is used to adaptively steer nulls in the presence of interfering jamming signals. The antenna assembly contains the antenna elements, radome, housing and SMA female connectors. This technology can be used for platforms such as missiles and other expendables, unmanned aerial systems, helicopters and land vehicles.



ELECTRICAL	
Frequency range	L1 1575.42 ± 12.0 MHz L2 1227.2 ± 12.0 MHz
VSWR	< 2.2:1 max, 2.0:1 typical
Gain	L1 > -4.5 dBic over upper 140° cone L2 > -7.0 dBic over upper 140° cone
Polarization	RHCP
Null depth	>20 dB typical
Radiation pattern	Hemispherical
Power handling	Receive only
MECHANICAL	
Weight	1.0 lbs max
Finish	Gray
ENVIRONMENTAL	
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.)

## KEY FEATURES

- > Four-element reduced-size array
- > Hybrid feed to each element
- > Low-loss dielectric radome
- > Ideal for missiles and unmanned aerial system platforms
- > Designed for use with antenna electronics equipment such as:
  - GPS Spatial Temporal Anti-jam Receiver (GSTAR)
  - Digital Integrated GPS Anti-jam Receiver (DIGAR)
  - Other null-steering electronics

### N201 Series Conformal GPS CRPA

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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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