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N203 SERIES CONFORMAL GPS CONTROLLED RECEPTION PATTERN ANTENNA (CRPA)

CUTTING-EDGE TECHNOLOGY

The N203 Series GPS CRPA leverages element technology from recent munitions antenna developments to permit smaller-sized and lower-profile array configurations. The N203 is a triangular-configuration array that is approximately 7.5 inches long, 6.5 inches wide and under 1 inch in height (when connectors are excluded). The antenna is a three-, four- or five-element array. 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 SMA or equivalent connectors. The multielement array is used to adaptively steer nulls or point beams in the presence of interfering jamming signals.

Microstrip patch type radiators provide a low-profile package. A hybrid feed incorporated in each element allows operation over a wide temperature band without the temperature-induced detuning often associated with such patch elements. This technology can be used for platforms such as unmanned aerial systems, helicopters, land vehicles and high-performance missiles and munitions.

ELECTRICAL	
Frequency range	L1 1575.42 ± 12.0 MHz L2 1227.2 ± 12.0 MHz
VSWR	< 2.2:1 max, 2.0:1 typical
Average gain	L1 > -2.0 dBic over upper 140° cone L2 > -4.0 dBic over upper 140° cone
Polarization	RHCP
Null depth	>20 dB typical
Radiation pattern	Hemispherical
Power handling	Receive only
MECHANICAL	
Weight	2.0 lbs max
Finish	Gray
Models	N203-1-1, 3-element array N203-2-1, 4-element array N203-3-1, 5-element array
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

- > Three-element conformal design
- > Extremely low profile array configuration
- > Ideal for high-performance missiles and other expendables
- > Alternate array configurations available
- > Designed for use with antenna electronics equipment such as:
 - GPS Anti-jam System (GAS-1)
 - Advanced Digital Antenna Production (ADAP)
 - GPS Spatial Temporal Anti-jam Receiver (GSTAR)
 - Digital Integrated GPS Anti-jam Receiver (DIGAR)
- > Other null-steering electronics

N203 Series GPS CRPA

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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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