



L3HARRIS™
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NI50 ANTENNA

CUTTING-EDGE TECHNOLOGY

Reduced maintenance costs are achieved through the use of this low-profile, all-metal blade as a result of its unequalled mechanical strength and built-in reliability. The NI50 is currently in use on business, commercial and military aircraft. They have clear advantages over other current designs including:

- > Extremely high-side load strength guards against breakage by ground handling gear.
- > Completely sealed construction prevents failure from moisture intrusion.
- > Lightning protection circuits prevent damage to the antenna and safeguard electronic equipment.

NI50 Antennas, which replace the NI49 Antennas, are used with all standard L-band equipment because of their broad bandwidth of 960 to 1,220 megahertz. Models of the NI50 Antenna are directly interchangeable with virtually all L-band blade and flush mounting antennas currently in service on commercial and military aircraft.

ELECTRICAL		
Frequency range	960 – 1220 MHz	
VSWR	960 – 1220 less than 1.7:1 1000 – 1100 less than 1.5:1	
Gain	Average at horizon 0 dB	
Impedance	RF DC	50 ohms Short circuit
Polarization	Vertical	
Radiation patterns	Hemispherical	
Power handling	3 kW peak, 100 watts average	
MECHANICAL		
Connector	Contact factory	
Weight	4 oz.	
Finish	Contact factory	
ENVIRONMENTAL		
Aero drag	Sea level, mach 0.5 Sea level, mach 0.8	2 oz. 4.5 oz.
Side load	TSO C34c	
ARINC	(ATC transponder) (DME)	532 E 521 D
FAA	(ATC transponder) (DME)	TSO-C74 TSO-C66a

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



KEY FEATURES

- > Low-profile all-metal blade
- > Direct current grounded design
- > Interchangeable with most L-band blade and flush mount antennas
- > Multiple color and connector configurations available

For other L-band blade options, please see the data on the NI24 data sheet.

For applications where flush antennas are required, see the NI7 data sheet.

While some replacements will require the use of standard adapter plates that are readily available, none require airframe modification.

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

NI50 Antenna

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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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