



L3HARRIS™
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CNI8 SERIES

UHF/L-BAND ANTENNA SYSTEM

The CNI8 Series offers a rugged, high-performance, ultra-high frequency (UHF)/L-band antenna system currently in use on the A-6, A-10, CP-140, E-3, F-15, F-16, F-18, P-3, S-3 and other aircraft. The system provides capability for simultaneous operation of UHF communications, identification friend or foe (IFF), tactical air navigation (TACAN) and data link through a single antenna.

The blade system provides dual-band omnidirectional coverage. It is composed of a high-strength fiberglass housing and an aluminum-base casting to withstand the severe supersonic environment. Integral and remote diplexer configurations are available. The antenna has been in constant use since 1971 with no known field failures or problems of any kind reflecting on its reliability.

ELECTRICAL			
		MHz	Ratio
Frequency range	CNI8-4/D, CNI8-6, CNI8-7	225–400	N/A
	CNI8-9, CNI8-10/A	950–1,220	
	CNI8-8, CNI8-11/A	225–400	
		950–1,220	
VSWR	CNI8-4/D, CNI8-6	225–275	2.2:1
		275–400	2.0:1
		950–1,220	2.0:1
	CNI8-7	225–250	2.5:1
		250–400	2.0:1
		950–1,220	2.0:1
	CNI8-8, CNI8-11/A	1,000–1,100	1.8:1
		225–400	2.0:1
		960–1,220	2.0:1
	CNI8-9, CNI8-10/A	1,000–1,100	1.8:1
		225–400	2.0:1
		950–1,220	2.0:1
CNI8-12	1,000–1,100	1.8:1	
	225–400	2.0:1	
Gain	Within 0.75 dB of 1/4 λ stub		
MECHANICAL			
		Weight	
	CNI8-4, D, CNI8-6	22 oz max (0.624 kg) (35 oz with diplexer)	
	CNI8-7, CNI8-8, CNI8-9, CNI8-10/A, CNI8-11/A, CNI8-12	35 oz max (1 kg)	
ENVIRONMENTAL			
	Exceeds MIL-E-5400	Less than 0.5 lbs	



KEY FEATURES

- > Rugged UHF/L-band blade
- > Fit for high-performance aircraft
- > External diplexer variants available
- > Capability for simultaneous use of multiple functions

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

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Non-export-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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