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# CNI24 SERIES

## VHF/UHF/L-BAND ANTENNA

The CNI24 Series multiband very high frequency/ultra-high frequency (VHF/UHF)/L-band antenna was designed for use with the ARC 182 radio and L-band equipment. The 12-inch tall fixed-tuned blade configuration provides enhanced VHF, frequency modulation (FM) and amplitude modulation (AM) band performance when compared to other 8- and 9-inch blades. Optional external diplexers are available, including the FM34 Series that can provide up to 85 decibels of isolation between the VHF/UHF and L-band frequency ranges while minimizing additional insertion losses. The CNI24 Series has been designed for deployment on high-performance (Mach 2.0+) aircraft. The -12, -15, and -17 broadband models have been designed to support interferometer-based direction-finding applications and are phase-matched on a 100 percent basis.

| ELECTRICAL                   | CNI24-3<br>CNI24-9   | CNI24-5  | CNI24-7   | CNI24-12                       | CNI24-15                      | CNI24-17       |
|------------------------------|--|--|---|--------------------------------|-------------------------------|----------------|
| <b>Frequency range (MHz)</b> | 30-88<br>108-174<br>225-400<br>950-1220                                      | 118-174<br>225-400<br>950-1220   | 30-88<br>108-174<br>225-400<br>950-1220   | 20-1000                        | 20-800                        | 100-500        |
| <b>VSWR (MHz)</b>            | 30-88, 2.5:1<br>108-174, 2.5:1<br>225-400, 2.0:1<br>950-1220, 2.0:1          | 118-17, 2.5:1<br>225-400, 2.0:1<br>950-1220, 2.0:1                           | 30-88, 2.7:1<br>108-118, 2.4:1<br>119-125, 2.2:1<br>126-174, 2.0:1<br>225-400, 2.0:1<br>960-1000, 2.0:1<br>1000-1220, 1.8:1 | 20-30, 3.3:1<br>30-1000, 2.5:1 | 20-30, 3.3:1<br>30-800, 2.5:1 | 100-500, 2.5:1 |
| <b>Gain (dBi)</b>            | -33-0  | 0 typ  | -33-0   | -41-0                          | -41-0                         | -16-0          |
| <b>Impedance</b>             | 50 ohms  |  |   |                                |                               |                |
| <b>Polarization</b>          | Vertical   |  |   |                                |                               |                |
| <b>Radiation patterns</b>    | Similar to a monopole  |  |   |                                |                               |                |
| <b>Phase matching</b>        | N/A  |  |   | 20-500 MHz<br>±5°              | 5° RMS                        | ±5°            |
| <b>Power handling</b>        | VHF 25 watts CW<br>UHF 45 watts CW<br>L-band 50 watts avg<br>3000 watts peak | VHF 25 watts CW<br>UHF 45 watts CW<br>L-band 50 watts avg<br>3000 watts peak | VHF 20 watts CW<br>UHF 45 watts CW<br>L-band 16 watts avg<br>4000 watts peak  | Rx only                        |                               |                |
| MECHANICAL                   |  |  |   |                                |                               |                |
| <b>Connector (female)</b>    | SC (-3)<br>N (-9)  | SC   | SC  | R/A TNC                        | R/A TNC                       | R/A TNC        |
| <b>Weight</b>                | 2.0 lbs max  |  |   |                                |                               |                |
| <b>Finish</b>                | N/A  | Wht (-5-1)<br>Blk (-5-2)   | Gray (-7-1)   | N/A                            |                               |                |
| <b>ICD</b>                   | N/A  | 261D1935 (-5-1)<br>5002581 (-5-2)  | 261D1992 (-7-1)   | N/A                            |                               |                |



### KEY FEATURES

- > Rugged UHF/L-band blade
- > External diplexer variants available
- > Qualified for high-performance aircraft
- > Interferometer direction-finding and phased-matched variants available

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

#### CNI24 Series VHF/UHF/L-band 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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