

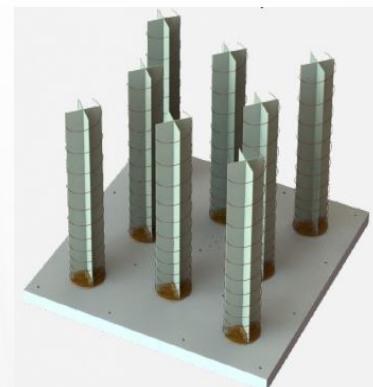
FALCCON High Gain Broadband Space Antenna

- + FALCCON is Redwire's Frequency Agile L-Band - Core Common Node, and is offered as a standard product for high-gain, tactical communications, telemetry, navigation or remote sensing needs. FALCCON is based on a common-core unit cell 'node' which offers a gain-frequency curve that is ideal for broadband applications. Apertures based on FALCCON technology can be scaled in size for specific link requirements, and scaled in frequency for varying applications.

FALCCON-based apertures enjoy high power handling capabilities, and high efficiency for sensitive uplink needs. The variant shown has been tuned for L-Band tactical waveforms such as MIDS Link-16.

The current FALCCON portfolio includes a high-gain (21 dBic) and intermediate gain (18.5 dBic) option for use with L-band radios such as MIDS Link-16, as well as a wideband high-gain GNSS option.

The antenna delivers equal power flux across a wide (24%+) spectrum by perfectly balancing antenna boresight gain with path loss over the frequency band.



Broadband Space Antennas are export controlled through an ECCN (Export Control Classification Number) issued by the United States Department of Commerce, ECCN 7A104. Export shipment requires successful application for an export license.



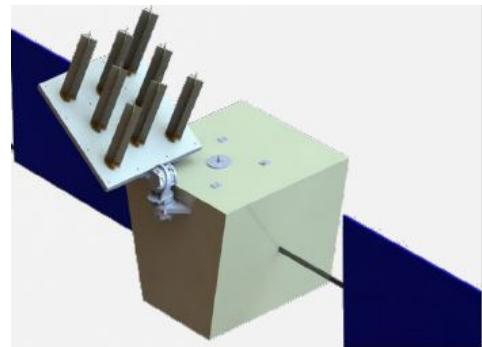
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CAPABILITIES

- + Scalable frequency bands for different applications. As shown: L-Band COMMs
- + Peak Gain (Measured at antenna connector, boresight): 21 dBic high gain; 18.5 dBic intermediate gain
- + Dimensions: 80 cm x 80 cm x 38 cm (high gain), 60 cm x 60 cm x 38 cm (intermediate gain). 38 cm height not inclusive of elevation structure & gimbal
- + Nadir footprint: Edge-mount to nadir deck for gimballed interface, or direct mount for body-steered S/V
- + Launch Locks: Included
- + Mass: <10 kg (does not include CFE gimbal)
- + Pointing: Body-pointed or 2-axis gimbal (gimbal is not included)
- + Stowed Frequency: 40 Hz estimated (varies with specific customer band)
- + Connector: PSM or TNC
- + Design Life: Greater than 5 years



APPLICATIONS

- + MIDS Link-16
- + GNSS
- + Commercial COMMs
- + Telemetry
- + Radar
- + SIGINT

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HERITAGE

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