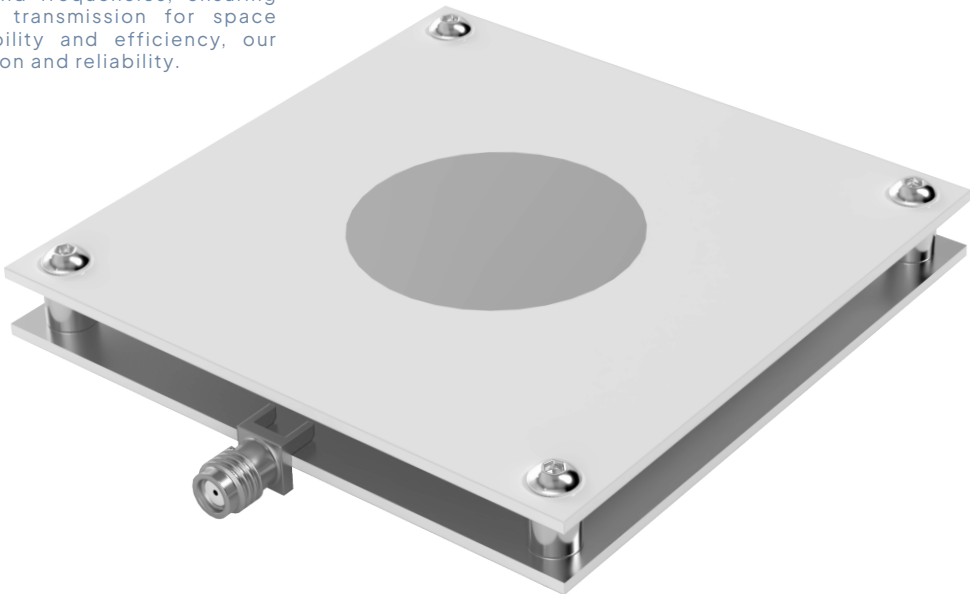


COMMUNICATE

LYRA ANTENNAS

NewSpace Systems offers a range of high-reliability antennas designed to meet the stringent requirements of satellite and aerospace applications. Our range of standard antennas is available from S-band and Ka-band frequencies, ensuring robust communication and data transmission for space missions. With a focus on durability and efficiency, our antennas are engineered for precision and reliability.



APPLICATION (LYNX)		KEY FEATURES (LYNX)	
• Earth Exploration-Satellite Service: X- and Ka-band high date-rate transmitter for payload data downlink • Intersatellite Data Links: X- and Ka-band high date-rate transmitter for intersatellite date links		• Quasi-error-free (QEF) communication • Variable and adaptive coding and modulation	
FUNCTIONAL	LYRA-H02	LYRA-S-PIN	LYRA-K-ARRAY
Frequency	1575.42 MHz ≥100°(phi = 0°); ≥100°(phi = 90°)	2200– 2290 MHz 80°	27–31 GHz 10° @ 29 GHz
Return loss	≤ -5 dB	< -10 dB	< -10 dB
Active gain	≥16 dBiC (@ Zenith)	≥ 6 dB	>20 dB @ 29 GHz
Polarization	Right Hand Circular (RHCP)	RHCP or LHCP preconfigurable	RHCP or LHCP pre - configurable
Axial Ratio	<10 dB(@ Zenith)	<3 dB	<3 dB
PHYSICAL	LYRA-H02	LYRA-S-PIN	LYRA-K-ARRAY
Dimensions	54 mm x 54 mm x 14.1 mm	50 mm x 50 mm	53 mm x 53 mm
INTERFACES	LYRA-H02	LYRA-S-PIN	LYRA-K-ARRAY
Connector	50 Ω SMA female	SMP or SMA	SMP

ACCEPTANCE TESTING: All FM parts undergo random vibration (10 RMS) as well as thermal cycling (four-cycle ambient pressure) to five degrees beyond operational thermal specifications. However, NewSpace can perform additional environmental testing if required by a client.

CONFIGURATION MANAGEMENT: Specifications are subject to change. Please refer to the latest version