

# SpaceLink Antenna Series

State-of-the-Art

## SATCOM and TT&C Antennas



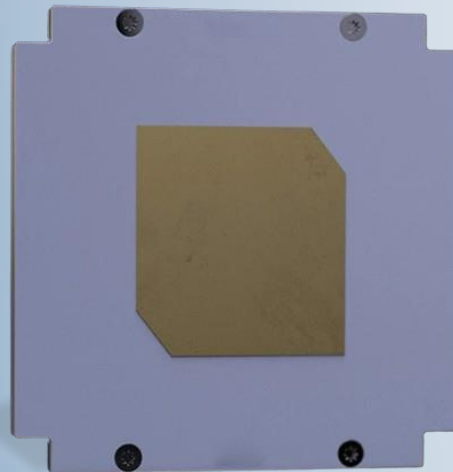
Compact and Light Weight



Covers all the major bands



Easy Installation



Space-Grade Qualification



Precision Tracking



Upto 5 W Power Handling



The SpaceLink SATCOM & TT&C antenna lineup delivers high-performance satellite-to-ground communication, ensuring high-speed data transmission, reliable broadcasting, and precise remote sensing. Ideal for maritime, aviation, and military applications, these antennas provide robust, secure links for navigation, command, and control. They excel in satellite health monitoring, orbital control, and command uploads, offering accurate telemetry, precise tracking, and effective emergency recovery. The SpaceLink lineup is engineered to deliver unparalleled performance in SATCOM and TT&C operations, ensuring effective emergency recovery and continuous mission support, making them a critical component of modern satellite communication infrastructure.

### Applications

- Data Transmission: High-speed data transfer capabilities
- Remote Sensing: Accurate environmental monitoring
- Military/Maritime/Aviation Communication: Secure and reliable communication
- Satellite Health Monitoring: Continuous system diagnostics
- Orbital Tracking & Control: Precise orbital position management
- Spacecraft Navigation: Accurate course and position determination

## Electrical Specifications

Parameter	SLL	SLS	SLX	SLK
<b>Frequency Range</b>	1.52 GHz – 1.65 GHz	2 GHz – 2.3 GHz (Two separate antennas for uplink and downlink)	8 GHz – 8.4 GHz	25.5 GHz – 27 GHz
<b>VSWR</b>	1.4:1	1.4:1	1.4:1	1.4:1
<b>Impedance</b>	50 Ω	50 Ω	50 Ω	50 Ω
<b>Gain</b>	6 dBiC (typ)	>5 dBiC	>23 dBiC	>28.5 dBiC
<b>Directionality</b>	Directional	Directional	Directional	Directional
<b>Polarization</b>	LHCP/RHCP	LHCP/RHCP	LHCP/RHCP	LHCP/RHCP
<b>3dB Beamwidth</b>	80° – 90°	80° – 90°	8° – 10°	5° – 6°
<b>Axial Ratio</b>	<6 dB	<3 dB	<2 dB	<2 dB
<b>Application</b>	SATCOM	TT&C	SATCOM	SATCOM
<b>Power Handling</b>	5W CW	5W CW	5W CW	4W CW

## Mechanical Specifications

Parameter	SLL	SLS	SLX	SLK
<b>Connector</b>	SMA Female	SMA Female	SMA Female	SMP Female
<b>Dimensions (LxW)</b>	98 mm x 98 mm	70 mm x 70 mm	32 cm x 32 cm	20 cm x 20 cm
<b>Height</b>	35 mm	25 mm	25 mm	25 mm
<b>Weight</b>	<500 grams	<400 grams	<400 grams	<300 grams
<b>Operating Temp</b>	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
<b>Construction</b>	Space-Grade PCB & Plastics & Aluminum	Space-Grade PCB & Plastics & Aluminum	Space-Grade PCB & Plastics & Aluminum	Space-Grade PCB & Plastics & Aluminum