

# UAV/UGV Antennas

• JEBSEE •

## AN I 523

### GNSS L1/L5 Helix External Antenna



#### Features

- **Ultra-Low Profile and Lightweight Design**  
Lightweight body and slim design, easily integrated into space-constrained devices such as UAVs, surveying instruments, and monitoring equipment.
- **Superior Multi-GNSS and Multi-Frequency Support**  
Fully supports GPS, GLONASS, GALILEO, BeiDou, and other satellite systems and frequency bands, offering more reliable and accurate positioning.
- **Excellent Anti-Interference Performance**  
Optimized circuitry and a robust low noise amplifier effectively suppress out-of-band interference and resist electromagnetic interference, ensuring signal purity.

#### Application

- **Precise UAV Positioning and Navigation**  
Offers high-precision, high-reliability positioning and navigation for UAVs, suitable for aerial photography, remote sensing, infrastructure inspection, etc.
- **High-Precision Surveying and Geospatial Data Acquisition**  
Meets professional surveying needs for high-precision positioning in topographic surveying, cadastral surveys, engineering measurements, and data acquisition.

Model No.		ANI 520						
Item								
Supported GNSS Bands	GPS	<input checked="" type="checkbox"/> L1	<input type="checkbox"/> L2	<input checked="" type="checkbox"/> L5				
	GLONASS	<input checked="" type="checkbox"/> G1	<input type="checkbox"/> G2	<input type="checkbox"/> G3				
	Galileo	<input checked="" type="checkbox"/> E1	<input checked="" type="checkbox"/> E5a	<input type="checkbox"/> E5b	<input type="checkbox"/> E6			
	BeiDou	<input checked="" type="checkbox"/> B1C	<input checked="" type="checkbox"/> B1I	<input checked="" type="checkbox"/> B2a	<input type="checkbox"/> B2b	<input type="checkbox"/> B3		
	L-band	<input type="checkbox"/> L-band						
	QZSS	<input checked="" type="checkbox"/> L1	<input type="checkbox"/> L2C	<input checked="" type="checkbox"/> L5	<input type="checkbox"/> L6			
	IRNSS	<input checked="" type="checkbox"/> L5						
	SABS	<input checked="" type="checkbox"/> L1/E1/B1	<input checked="" type="checkbox"/> L5/B2a/E2a	<input checked="" type="checkbox"/> G1	<input type="checkbox"/> G2	<input type="checkbox"/> G3		
Frequency Range	MHz	1164-1186			1559 – 1606			
Gain at Zenith	dBic	2.0 typ.			2.5 typ.			
Axial Ratio	dB				3.0 max.			
Polarization					RHCP			
Radiation Pattern					Hemispherical			
LNA Gain	dB				28.0 ± 3.0			
Noise Figure	dB				2.0 max.			
Output VSWR	:1				2.0 max.			
Saw Filter Type					Pre-Filter			
Current Consumption	mA				55 max. @ 3.0 – 5.5 VDC			
Connector					SMA Male			
		Mechanical						
Mounting		Direct Mount						
IP Rating		IP67						
Dimensions		Ø34*60 mm						

