

UAV/UGV Antennas

• JEBSEE •

AN1521

GPS/GLONASS/BEIDOU/QZSS/Galileo/IRNSS/SBAS/
L1L2L5L6

GNSS L1/L2/L5/L6 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.

Item	Model No.	AN1521				
Supported GNSS Bands	GPS	<input checked="" type="checkbox"/> L1	<input checked="" type="checkbox"/> L2	<input checked="" type="checkbox"/> L5		
	GLONASS	<input checked="" type="checkbox"/> G1	<input checked="" type="checkbox"/> G2	<input checked="" type="checkbox"/> G3		
	Galileo	<input checked="" type="checkbox"/> E1	<input checked="" type="checkbox"/> E5a	<input checked="" type="checkbox"/> E5b	<input checked="" type="checkbox"/> E6	
	BeiDou	<input checked="" type="checkbox"/> B1C	<input checked="" type="checkbox"/> B1I	<input checked="" type="checkbox"/> B2a	<input checked="" type="checkbox"/> B2b	<input checked="" type="checkbox"/> B3
	L-band	<input type="checkbox"/> L-band				
	QZSS	<input checked="" type="checkbox"/> L1	<input checked="" type="checkbox"/> L2C	<input checked="" type="checkbox"/> L5	<input checked="" 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 checked="" type="checkbox"/> G2	<input checked="" type="checkbox"/> G3
Frequency Range	MHz	1164 – 1278			1559 – 1606	
Gain at Zenith	dBiC	2.6 typ.			2.8 typ.	
Axial Ratio	dB				3.0 max.	
Polarization					RHCP	
Radiation Pattern					Hemispherical	
LNA Gain	dB				28.0 \pm 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		$\varnothing 40 \times 47$ mm				