

# UAV/UGV Antennas

• JEBSEE •

## AN1521

GPS/GLONASS/BEIDOU/QZSS/Galileo/IRNSS/SBAS/  
L1/L2/L5/L6

### 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.

Model No.		AN1521						
Item								
Supported GNSS Bands	GPS	■ L1	■ L2	■ L5				
	GLONASS	■ G1	■ G2	■ G3				
	Galileo	■ E1	■ E5a	■ E5b	■ E6			
	BeiDou	■ B1C	■ B1I	■ B2a	■ B2b	■ B3		
	L-band	□ L-band						
	QZSS	■ L1	■ L2C	■ L5	■ L6			
	IRNSS	■ L5						
	SABS	■ L1/E1/B1	■ L5/B2a/E2a	■ G1	■ G2	■ 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 ± 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		Ø40*47 mm						

