

# UAV/UGV Antennas

• JEBSEE •

## AN1520

### GNSS L1/L2 Helix External Antenna



GPS/GLONASS/BEIDOU/QZSS/Galileo/SBAS/L1L2

#### 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.	AN1520				
Supported GNSS Bands	GPS	<input checked="" type="checkbox"/> L1	<input type="checkbox"/> L2	<input type="checkbox"/> L5		
	GLONASS	<input checked="" type="checkbox"/> G1	<input checked="" type="checkbox"/> G2	<input type="checkbox"/> G3		
	Galileo	<input checked="" type="checkbox"/> E1	<input type="checkbox"/> E5a	<input type="checkbox"/> E5b	<input type="checkbox"/> E6	
	BeiDou	<input checked="" type="checkbox"/> B1C	<input checked="" type="checkbox"/> B1I	<input 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 checked="" type="checkbox"/> L2C	<input type="checkbox"/> L5	<input type="checkbox"/> L6	
	IRNSS	<input type="checkbox"/> L5				
	SABS	<input checked="" type="checkbox"/> L1/E1/B1	<input type="checkbox"/> L5/B2a/E2a	<input checked="" type="checkbox"/> G1	<input checked="" type="checkbox"/> G2	<input type="checkbox"/> G3
Frequency Range	MHz	1217 – 1257			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				