

RTK APPLICATIONS

SURVEY GNSS ANTENNA

• JEBSEE •

AN I 525

GPS(L1/L2/L3/L5/L6 L-Band)/GLONASS/BDS(B1/B2/B3)/
Galileo(E1/E5a/E5b/E6)/QZSS/IRNSS/SBAS

High Precision GnsS Antenna For Surveying Applications

Features

- **High Phase Center Stability**
Multi-point feeding design achieves superior phase center stability, effectively improving measurement accuracy and providing millimeter-level positioning solutions.
- **Tracking in Challenging Environments**
High gain and wide beam width enable reliable reception of low elevation signals, ideal for GNSS surveying in obstructed environments such as tree lines or construction sites.
- **Strong Anti-Interference Performance**
LNA with excellent out-of-band rejection suppresses electromagnetic interference, ensuring stable and reliable GNSS signals in complex RF environments such as communication base stations and urban areas.
- **Durable, Easy-Installation Design**
Compact and lightweight for outdoor portability. The durable enclosure meets IP67, protecting against dust and water ingress for long-term precision use.

Application

- **High-Precision GNSS Surveying**
Designed for professional surveying applications requiring millimeter-level accuracy, including topographic surveys, cadastral surveys, and engineering measurements.
- **Challenging Environment Operations**
Suitable for field deployments in obstructed areas, construction zones, and tree-line environments where reliable satellite tracking is critical.
- **Communication Base Station & Urban Deployment**
Strong anti-interference capability ensures reliable performance near electromagnetic noise sources such as base stations and urban infrastructure.



Model No.	AN I 525
Item	
RF Performance	
Frequency Range (Lower)	1164 – 1300 MHz
Frequency Range (Upper)	1525 – 1615 MHz
Gain at Zenith (90°)	5.5 dBi (max) @ 1164–1300 MHz / 5.5 dBi (max) @ 1525–1615 MHz
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio	≤ 3 dB
LNA Gain	40 dB (typical)
Noise Figure	≤ 2 dB
Output VSWR	≤ 2.0:1
Group Delay Ripple	< 5 ns
Mechanical	
Operation Voltage	+3.3 VDC to +12 VDC
Operation Current	45 mA (maximum)
Connector	TNC Female
Mounting	5/8"-11 UNC, 12-14 mm
Dimensions	Ø 153 mm x H 60 mm
Weight	≤ 500 g
Environmental	
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +85 °C
Humidity	95% non-condensing
IP Rating	IP57