

# Multi-Constellation Full Frequency Foldable Helical Antenna

## Product Information

**Product Model:** DY-AS9623P

**Applicable Frequency Band:** BDS B1/B2/B3; GPS L1/L2/L5

GLONASS L1/L2; Galileo E1/E5/E6; L-band



## Product Usage

This antenna is a multi-constellation full frequency high gain geodetic surveying antenna. This small form antenna employs a foldable design that allows a maximum of 90 degree bending angle for superior GNSS signal availability while integrated with surveying terminals as pad and consoles in the field.

## Key Feature

- Supported reliable and consistent satellite signals tracking, including GPS, GLONASS, Galileo and BDS, as well as L-Band. It also exhibits very stable phase center by adopting multipoint feeding technology.
- The antenna uses multi-arm helical technology, ensuring the RHCP and phase center performance and reduces the impact of survey errors.
- The antenna unit has the characteristics of high gain and small gain roll-off, and has good reception effect on satellite signals at low elevation angles.
- Foldable design that allows a maximum of 90 degree bending angle, providing the most flexible GNSS signal reception angle for robust signal availability of the surveying control terminals.
- Small size, light weight, easy to carry and install.

## Electrical Specifications

Frequency Range	1164MHz~1278MHz & 1525MHz~1615MHz
Polarization	RHCP
Antenna Gain	2 dBi (Peak gain)
Axial Ratio	≤3dB
Output VSWR	≤2.0
Azimuth Coverage	360°
Impedance	50Ω

## LNA Specifications

Frequency Range	1164MHz~1278MHz & 1525MHz~1615MHz
LNA Gain	33±2dB
Output VSWR	≤2.0
Noise Figure	≤2 dB
Passband Ripple	±2dB
Voltage	3.0~12.0V DC
Working Current	≤55mA

## Mechanical Specifications

Dimension	Φ25×107mm
Connector	SMA male
Weight	<95g
Operating Temperature	-40°C~+80°C
Storage Temperature	-55°C~+80 °C
Humidity	95% No-condensing
Waterproof Protection	IP65