

KEY FEATURES

Swegeo HS10 is a multi-constellation and multi-frequency Helical GNSS antenna with eight-arm coupling and four-feed point technology that supports **GPS, GLONASS, GALILEO, BEIDOU, QZSS, IRNSS, SBAS** and **L-Band**.



HIGH GAIN RECEPTION & RELIABLE LOW-NOISE AMPLIFIER FOR OPTIMAL SATELLITE TRACKING

- It fits into any application that requires a small size and lightweight antenna without sacrificing high performance in high-precision positioning, particularly in UAV, pocket-size RTK, handheld/tablet, or other portable system applications.

ENHANCED PERFORMANCE AND PRECISION

- Multi-arm spiral technology ensures high performance on right-hand circular polarization and phase center stability. It further lowers the measurement errors.

OPTIMIZED RECEPTION

- The overall design provides a high gain on low-elevation satellite signal reception so that a higher number of satellites are available for position calculation.

IMPROVED SIGNAL QUALITY

- Built-in low-noise amplifier, two-stage filter, good out-of-band suppression strong anti-interference ability provide fully reliable antenna performance in harsh electromagnetic environments.

VERSATILE AND DURABLE

- It is small in size, lightweight, and easy to carry and install.

GENERAL	
Architecture	Quadrifilar Helix
Signal Supported	GPS: L1/L2/L5
	GLONASS: G1/G2/G3;
	BEIDOU B1/B2/B3
	GALILEO E1/E5a/E5b/E6
	QZSS L1/L2/L5
	IRNSS L1/L2/L5
	SBAS L1/L2/L5
	L-Band
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio @zenith	≤1.5dB
Gain @zenith	≥2.5dBi

LNA	
Frequency Range	1164MHz~1278MHz
	1525MHz~1615MHz
LNA Gain	35±3.0dB (Typ. @25°C)
Noise Figure	≤1.5 dB@25°C , Typ.
Output VSWR	≤1.8:1 typ. 2.0:1max
Operation Voltage	3.0~16V DC
Operation Current	≤45mA

ENVIROMENTAL	
Operating Temperature	-40°C to+85°C
Storage Temperature	-45°C to+85°C
Humidity	95% Non-condensing
Ingress Rating	IP67

MECHANICAL	
Dimensions	Φ43.5 mm*40.8 mm
Connector	SMA-J
Weight	32 gram
Radome	ABS+PC
Attachment	3 screws on base
Vibration	3 axis,sweep=15min,10 to 200Hz sweep: 3G
Shock	Vertical axis:50G,other axes: 30G

MECHANICAL DRAWING (MM)

