KEY FEATURES

Swegeo AA30 is a multi-constellation and multi-frequency Airborne GNSS antenna that supports GPS, GLONASS, GALILEO, BEIDOU, QZSS, IRNSS, SBAS and L-Band.





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

It is widely used in high-precision navigation and positioning applications in high dynamic environments such as aerospace, UAV, precision agriculture, ADAS, Autonomous Driving where aerodynamics play an crucial role while accuracy and reliability are not sacrificed. Furthermore AA30 is the indoor antenna of TT225 GNSS Re-radiating system.

ENHANCED PERFORMANCE AND PRECISION

 Double layer multi-feed point 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

 Pre-filtering on the low noise amplifier effectively suppresses out-of-band interference signals and improves the reliability of the system.

VERSATILE AND DURABLE

• The enclosure is rated IP67 which ensures a reliable performance in any harsh environmental conditions.





SWEGEO

SWEGEO AA30

AIRBORNE GNSS ANTENNA

GENERAL	
Architecture	Dual Feed, Dual Stacked Patch
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@Fc

Φ67.5mm*27mm
TNC (Female)
150 gram
ABS+PC
8 screw holes
Aluminum alloy 6061-T6
3 axis,sweep=15min,10 to 200Hz sweep::3G
Vertical axis:50G,other axes: 30G

LNA	
Frequency Range	1164MHz~1286MHz
	1525MHz~1615MHz
LNA Gain	2.5-3.5dB
Noise Figure	≤2.0 dB@25°C , Typ. (Pre-filtered)
Output VSWR	≤1.5:1 typ. 1.8:1max
Operation Voltage	3.0 - 16V DC
Operation Current	≤50mA
Output of Band Rejection	L5/E5/L2/G2/B2
	<1050MHz: >55dB
	<1125MHz: >30dB
	>1350MHz: >45dB
	L1/E1/B1/G1
	<1450MHz: >40dB
	>1690MHz: >40dB
	>1730MHz: >45dB

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

MECHANICAL DRAWING (MM)

