

LH-1256AR-D Specification



High Performance multi-band Helix Antenna

LH-1256AR-D is an four constellations multi-band GNSS helix antenna for L1 ,L2 ,L5 and L-bands of GPS/QZSS, GLONASS, GALILEO, BEIDOU and IRNSS. This antenna's small size, light weight, and low power consumption make it ideal for applications requiring RTK-level positioning accuracy, such as autonomous vehicles, drone displays, aerial photography, high-precision mapping, remote sensing, traffic control, and public safety.

1. Technical specification

Antenna Specifications	
Frequency	GPS/QZSS: L1, L2, L5 GLONASS: L1, L2, L3 GALILEO: E1, E5a, E5b BEIDOU: B1I, B1C, B2a, B2b, B3I NAVIC: L5 QZSS: L1, L2, L5, L6 L-Band: 1542±17MHz
Polarization	R.H.C.P
Gain (dBi)	≥2.5
Antenna AR (dB)	≤1.5
Port impedance (Ω)	50
VSWR	≤ 2
Electrical Specifications	
LNA Gain (dB)	30±3 (Typ. @25°C)
Noise figure (dB)	<1.5dB@25°C, Typ. (Pre-filter)
Operating voltage (VDC)	3 ~ 12V
Operating current (mA)	24±3mA(3V), 31±3mA(5V), Max 45mA(12V)
VSWR	≤1.8:1 typ. 2.0:1max
Structural Characteristics	
Connector type	SMA-J
Antenna Size (mm)	ø43.5 *40.8
Protection level	IP67
Weight	≤ 32 g
Environment Adaptation	
Operating temperature	-40 ~ 85 °C

Storage temperature	-40 ~ 85 °C
Relative humidit	95% couldn't condense

2. Size Unit:mm (Tolerance $\pm 0.3\text{MM}$)

