

Multi-Frequency Band Vehicle Antenna



EV288

Description

EV288 is a full frequency vehicle antenna supporting GPS,BDS,GLONASS,GALILEO,which can be widely used in automated agricultural equipment, high precision UAVs, vehicles-mounted etc. it is especially suitable for many applications of high-precision automated agricultural machines, such as high-precision tractors, plant protection machines, cultivators, and harvesters.

Technical Features

1. Passive antenna with high gain, wide beam width, low elevation angle signal reception effect is good, can receive satellite signal in serious blocking environment;
2. Passive antenna with wide working band can support multi-system & multi-frequency well, such as L5、 B3、 LBand and other frequency points, greatly improving the stability of the system;
3. Small size, light weight, reliable structure, protection level up to IP68, greatly improving the reliability of the machine, such as waterproof, vibration, and so on;
4. Strong anti-interference performance, antenna out-of-band suppression is high, can effectively avoid base station and other signal interference caused by system instability.

Application

- Unmanned delivery vehicle
- Self-drive bus
- Unmanned & unpiloted
- Self-driving truck
- Self-driving cab
- Plant protection drone

Technical parameters

Passive antenna characteristics

Frequency Range	BDS:B1/B2/B3 GPS:L1/L2/L5 GLONASS:L1/L2/L3 GALILEO:E1/E5a/E5b/E6 L-Band	Polarization	RHCP
		Antenna axis ratio	≤3dB
		Azimuth coverage	0°~360°
		VSWR	≤1.5
		Maximum gain	3.5dBi
Antenna Impedance	50Ω	Phase center error	±3mm

Low Noise Amplifier Characteristics

LNA Gain	33±2dB	Passband ripple	±2dB
Noise figure	≤1.3dB	Operating voltage	DC3.3~12V
VSWR	≤2.0	Operating current	≤50mA

Structural and environmental adaptability

Dimensions	107*43mm	Waterproof rating	IP67
Weight	?	Salt spray	Meet GB/T 2423.18(Note 1)72h
Connector	SMA-K	Dropping	Single unit free fall 3 meters (Note 1)
Mounting	5/8"×11 thread (inch)	Operating TEMP	-40℃~+85℃
Vibratory	Meet GB/T 2423.100	Storage TEMP	-55℃~+85℃
Impact	Meet GB/T 2423.5(Note 1)	Storage humidity	95% non-condensing

