

GNSS Surveying Antenna

HX-CSX608A

Product Introduction

HX-CSX608A is a multiple constellation full-frequency external surveying antenna, to meet the current surveying equipment of high precision, multiple constellation compatibility requirements. It can be widely used in geodetic surveying, marine surveying, waterway surveying, dredging surveying, seismic monitoring, bridge deformation monitoring, landslide monitoring, dock container operation and other occasions.

Technical Features

1. The antenna part adopts the multi-feed design scheme to realize the coincidence of the phase center and the geometric center, so as to minimize the influence of the antenna on the surveying deviation.
2. High gain of antenna element and wide beam width ensure the receiving effect of low elevation signal, and can still receive the satellite normally in some cases with serious occlusion.
3. With anti multipath choke, it can effectively reduce the influence of multipath on the surveying accuracy.
4. Waterproof and anti UV covers, which provide guarantee for long term field work of antennas.

Technical Parameter

Antenna Spec

Frequency Range	GPS L1/L2/L5
	BDS1 S-band(2491.75±10.23MHz)
	BDS2 B1/B2/B3
	GLONASS L1/L2
	Galileo E1/E5a/E5b
Impedance	50ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
Phase Center Deviation	±2mm

LNA Spec

LNA Gain	40±2dB
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Noise Figure	≤2.0dB
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Output VSWR	≤2.0
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In-band flatness	±2dB
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Operation Voltage	3.3~12VDC
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Operation Current	≤65mA
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Group Delay	≤5ns
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Mechanical Spec

Dimension	φ 173.4*62.6 mm
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Connector	TNC Female
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Weight	≤550 g
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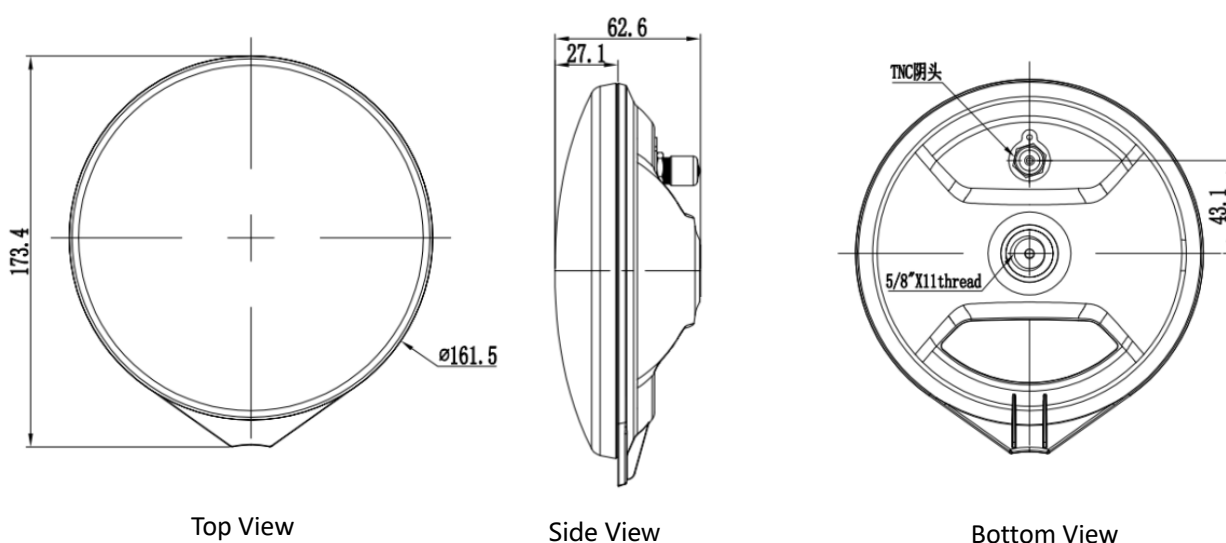
Environment Spec

Operating Temp	-40℃~+85℃
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Storage Temp	-40℃~+85℃
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Humidity	45%~95%
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Structural Drawing(mm)



Undeclared tolerance: ±0.2mm