



# GNSS OEM Antenna

## HX-CS7017A

### Product Introduction

HX-CS7017A is a GPS L1\L2、GLONASS L1\L2 and BDS B1\B2\B3 bands OEM antenna, which has passed through IGS phase center certification. This survey antenna has exceptional pattern control, polarization purity and high efficiency in a very compact form factor. Antenna element has high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle. HX-CS7017A can be widely used in surveying and mapping, marine surveying and mapping, channel surveying and harbor dredge measurement, earthquake monitoring, monitoring of bridge deformation, landslides, port container operation, etc.

### Technical Features

- GPS L1\L2、GLONASS L1\L2 and BDS B1\B2\B3 bands
- Multi-path rejection board inside can eliminate the multi-path influence to measurement error.
- High stability and high repeatability at phase center
- Very low noise figure
- Ground plane independent
- GIS&RTK applications

## Technical Parameter

### Antenna Spec

Frequency Range	GPS L1/L2 GLONASS L1/L2 BDS B1/B2/B3
Impedance	50ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
Phase Center Error	±2mm
<b>LNA Spec</b>	
LNA Gain	40±2dB
Noise Figure	≤2.0dB

Output VSWR	≤2.0
In-band flatness	±2dB
Operation Voltage	3.3~12VDC
Operation Current	≤45mA
Group Delay	≤5ns

### Mechanical Spec

Dimension	φ 122*17.5mm
Connector	MCX-C-JW1.5

### Environment Spec

Operating Temp	-40℃ ~ +85℃
Storage Temp	-55℃ ~ +70℃
Humidity	95% No-condensing

## Structural Drawing

