



Harxon OEM ANTENNA SERIES

GNSS OEM Antenna HX-CSX015A

Product Introduction

The HX-CSX015A is a compact, wideband GNSS antenna from Harxon that provides accurate reception for all upper GPS L1\|L2\|L5、GLONASS L1\|L2 and BDS B1\|B2\|B3 and Galileo E1\|E2\|E5a\|E5b signals and associated augmentation signals(WAAS, EGNOS and MSAS).

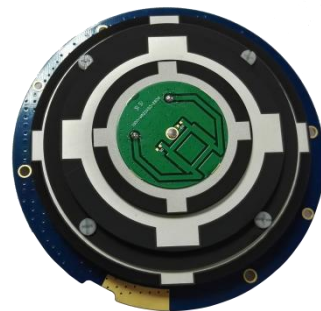
The HX-CSX015A has exceptional pattern control, polarization purity and high efficiency in a very compact form factor. Antenna element has high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle.

The HX-CSX015A is the smallest, lightest, GNSS antenna for reception of all GNSS constellations. The built-in 111mm circular ground plane should ideally be augmented with a local system ground plane.

OEM antenna are easily detuned by the local environment, Harxon offers custom tuning services for optimized integration into OEM end-user modules.

Technical Features

- GPS L1\|L2\|L5、GLONASS L1\|L2 、 BDS B1\|B2\|B3 and Galileo E1\|E2\|E5a\|E5b 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/L5
	GLONASS L1/L2
	BDS B1/B2/B3
	Galileo E1\E2\E5ab
Impedance	50ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
Phase Center Error	±2mm

LNA Spec

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 111*23mm

Connector MMCX-50KWE

Environment Spec

Operating Temp -40℃~+85℃

Storage Temp -55℃~+70℃

Humidity 95% No-condensing

Structural Drawing

