HARXON HIGH PRECISION GNSS ANTENNAS

Series	OEM GNSS Antenna						Ruggedized Antenna		X-Survey OEM Antenna	
Model	HX-CSX078A	HX-CSX048A	HX-CS7017A	HX-CUX003A	HX-CU7001A	HX-CH4013A	HX-CVX600A	HX-CVX603A	HX-CSX137A	HX-CSX100A
Image										
Design Type	Survey	Survey	Survey	Survey	Survey	Survey	Construction	Construction	Survey	Survey
GPS	L1/L2/L5	L1/L2/L5	L1/L2	L1/L2/L5	L1/L2	L1/L2	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5
GLONASS	L1/L2/L3	L1/L2/L3	L1/L2	L1/L2/L3	L1/L2	L1/L2	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3
GALILEO	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1/E5b	E1/E5a/E5b/E6	E1	E1	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1/E5a/E5b/E6
BDS	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	/	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3
4G/5G	/	/	/	/	/	/	/	/	820-960MHz, 1710-2690MHz	820-960MHz, 1710-2690MHz
WIFI/BT	/	/	/	/	/	/	/	/	2.4-2.48GHz, 5725-5850 MHz	2.4-2.48GHz
L-Band	√	√	/	√	/	/	√	√	√	√
Peak Gain	5.5dBi	5.5dBi	5.5dBi	2.5dBi	2.5dBi	4dBi	5.5dBi	4.0dBi	4.5dBi	5dBi
LNA Gain (Typical)	40±2dB	40±2dB	40±2dB	36±2dB	36±2dB	40±2dB	40±2dB	40±2dB	L2: 40±2dB L1: 38±2dB	L2: 40±2dB L1: 38±2dB
Noise Figure	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB
DC-Feed	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.0V-3.3V	3.3V-18V	3.3V-16V	3.3V-12V	3.3V-12V
	45mA	45mA	45mA	55mA	45mA	55mA	45mA	45mA	45mA	45mA
Dimension	¢111x24.5mm	¢152x25mm	ϕ122*17.5mm	¢60×16.7mm	¢60×16.7mm	75*70*13.3mm	¢150×53mm	Φ90.6×26mm	Φ111×23.8mm	¢125x27.5mm
Weight	220g	220g	200g	60g	60g	90g	600g	250g	150g	220g
Connector	MCX-C-JW1.5	MCX-C-JW1.5	MCX-C-JW1.5	MCX-C-JW1.5	MMCX	U.FL	TNC Female	TNC Female	GNSS: MCX-C-JW1.5 BT/WiFi: MCX-C-JW1.5 Dual 4G: MCX-C-JW1.5	GNSS: MCX-C-JW1.5 BT/WiFi: MCX-C-JW1.5 Dual 4G: MCX-C-JW1.5

X-SURVEY OEM ANTENNA

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou as well as L-Band correction service
- Highly integrated design with GNSS antenna, dual 4G antennas, WI-FI, Bluetooth antenna embedded
- Reliable phase center, low elevation signal tracking, and high signal gain offer millimeter positioning accuracy
- Superior out-of-band rejection and filtering, excellent multi-path reduction capacity
- Great electromagnetic compatibility, easy for integration

ABOUT HARXON

Founded in 2008, Harxon Corporation is a subsidiary company of BDstar (stock code: 002151), the first company listed in China's satellite navigation industry.

Harxon specializes in satellite navigation industry and has been growing steadily along with the development of Beidou satellite navigation industry. So far, Harxon has developed comprehensive business strategy in the field of satellite positioning and communication antennas, providing customized products and solutions for global customers in the fields of surveying and mapping, unmanned aerial vehicles, precision agriculture, digital construction, deformation and safety, intelligent transportation, intelligent connected vehicles and autonomous driving.

Nowadays, Harxon has 2 holding subsidiaries, over 400 employees and more than 200 partners worldwide. With an annual output value of 600 million yuan, Harxon has become a leading company in the field of satellite positioning antenna in China.

Strive to become world's leading satellite positioning antenna solution provider

HARXON CORPORATION

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HIGH PRECISION GNSS ANTENNA
SELECTION GUIDE



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HARXON HIGH PRECISION GNSS ANTENNAS

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Series	Survey GNSS Antenna					Choke Ring Antenna				Aviation Antenna					Helix Antenna											
Model	HX-CSX601A	GPS1000	GPS600	GPS500	HX-CS3607A	HX-CGX611A	HX-CGX601A	HX-CGX606A	HX-CG7601A	HX-CAX601A	HX-CA7607A	HX-CA7606A	HX-CA3603A	HX-CA7603A	HX-CUX005A	HX-CHX602A	HX-CU7006A	HX-CU7603A	HX-CH7609A	HX-CU7005A	HX-CH7018A	HX-CHX600A	HX-CH7603A	HX-CH6017A	HX-CH6601A	HX-CH3602A	HX-CH4601A
Image																										
Design Type	Survey	Survey	Survey	Survey	Survey	CORS Station	CORS Station	CORS Station	CORS Station	Aviation	Aviation	Aviation	Aviation	Aviation	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV	UAV
GPS	L1/L2/L5	L1/L2/L5	L1/L2	L1/L2	L1	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2	L1/L2/L5	L1/L2	L1/L2	L1	L1/L2	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2/L5	L1/L2	L1/L2	L1/L2	L1	L1/L2
GLONASS	L1/L2/L3	L1/L2/L3	L1/L2	L1/L2	L1	L1/L2/L3	L1/L2/L3	L1/L2/L5	L1/L2/L3	L1/L2/L3	L1/L2	L1/L2	L1	L1/L2	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2/L3	L1/L2	L1/L2	L1/L2	L1	L1/L2
GALILEO	E1/E5a/E5b/E6	E1/E6/E5a/E5b	E1/E5b	E1/E5b	E1	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1	E1/E5a/E5b/E6	E1/E5b	E1/E5b	E1	E1/E5b	E1/E5a/E5b	E1/E5a/E5b/E6	E1/E5a/E5b	E1/E5a/E5b	E1/E5a/E5b	E1/E5a/E5b	E1/E5a/E5b	E1/E5a/E5b/E6	E1	E1	E1	E1	E1
BDS	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2/B3	B1/B2	B1/B2	B1	/
WIFI/BT	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.4-5.8GHz	/	/	/	/	/	/	/	/	/	/	/	/
L-Band	√	√	√	/	/	√	√	√	/	√	/	/	/	/	√	√	√	√	√	√	√	√	/	/	/	/	/
Peak Gain	6dBi	5.5dBi	5.5dBi	5.5dBi	5.5dBi	6.5dBi	7.0dBi	6.0dBi	6dBi	4dBi	4dBi	4dBi	4dBi	4dBi	2.5dBi	2dBi	2.8dBi	2.5dBi	2.8dBi	2.5dBi	2.8dBi	4.2dBi	4.2dBi	2.5dBi	2.5dBi	2.5dBi	2.5dBi
LNA Gain (Typical)	40dB	40dB	40dB	40dB	40dB	50±2dB	50dB	50dB	50dB	36dB	36dB	36dB	36±2dB	36dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33±2dB	33dB
Noise Figure	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽2dB	⩽1.5dB	⩽1.5dB	⩽1.5dB	⩽1.5dB	⩽1.5dB	⩽1.5dB
DC-Feed	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-5V	3.3V-12V	3.3V-5V	3.3V-12V	3.3V-5V	3.3V-12V	3.3V-5V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V	3.3V-12V
	45mA	45mA	45mA	45mA	35mA	60mA	60mA	60mA	60mA	45mA	45mA	45mA	35mA	45mA	55mA	55mA	55mA	55mA	55mA	55mA	55mA	55mA	55mA	55mA	55mA	35mA	55mA
Dimension	¢173.4×62.6mm	¢152*62.2mm	¢152*62.2mm	¢152*62.2mm	¢152*62.2mm	Φ185*148mm	¢379*312mm	¢322*261mm	¢322*261mm	¢90*27.4mm	¢90*27.4mm	115*71.8*27.4mm	¢90*27.4mm	¢90*27.4mm	¢44*37mm	25mm×107mm	¢44*31.7mm	¢32.2*45.8mm	¢43.6*40.8mm	¢30*34mm	¢44*28mm	¢40*82.6mm	¢40*75.2mm	¢23.8*46.8mm	¢27.5*59mm	¢27.5*59mm	¢27.5*59mm
Weight	500g	500g	500g	500g	500g	2.5kg	10.5kg	5.6kg	5.6kg	150g	150g	150g	130g	150g	10g	95g	15g	20g	30.5g	10g	8g	45g	38g	7g	25g	25g	25g
Connector	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	TNC female	SMA Female	SMA Female	GNSS: MCX-50KE WIFI: MCX-50KE	SMA Male	MCX-50KE	SMA Male	SMA Male	U.FL-LP-066J1-A	IPEX Female	SMA Male	SMA Male	IPEX	SMA Male	SMA Male	SMA Male
Compliance	NGS, CE, FCC, RoHS	NGS, CE, FCC, RoHS	NGS, CE, FCC, RoHS	FCC, CE, RoHS	CE	IGS,CE, FCC、ROHS	IGS, NGS, CE, FCC, RoHS	NGS,CE, FCC, RoHS	NGS,CE, FCC, RoHS	CE, FCC, RoHS, REACH	NGS, CE, FCC, RoHS, REACH	NGS, CE, FCC, RoHS, REACH	CE, FCC, RoHS, REACH	CE, FCC, RoHS, REACH								FCC,CE,RoHS, REACH	CE, RoHS		CE, RoHS, REACH	CE, RoHS	CE, RoHS

SURVEY GNSS ANTENNA

- Support GPS, GLONASS, Beidou, Galileo and L-band signal reception
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the harshest operating environments
- Ip67 ruggedize protection

CHOKE RING ANTENNA

- Comprehensive GNSS Support: GPS, GLONASS, Galileo, BeiDou, QZSS, IRNSS, SBAS as well as L-Band correction service
- High gain with extraordinary low elevation signal tracking
- High phase center stability ensures sub-millimeter level positioning accuracy
- Strong anti-interference for harsh environment operations
- Ruggedized structure, mini design, lightweight, IP67 water/dust resistance

AVIATION ANTENNA

- Support GPS, GLONASS, Beidou and Galileo signals reception
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the challenging operating environments
- Small form factor with IP67 ruggedized structure

HELIX ANTENNA

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou, as well as L-Band correction service
- Patented D-QHA technology ensures reliable signal tracking
- Centimeter phase center repeatability
- Improved signal filtering and excellent multipath rejection
- Low power consumption, lightweight, small form factor facilitates easier integration

OEM GNSS ANTENNA

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou and L-Band correction services
- Centimeter phase center repeatability
- Improved signal filtering and excellent multipath rejection
- Superior electromagnetic compatibility foreasy integration

RUGGEDIZED ANTENNA

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou and QZSS, IRNSS, SBAS as wellas L-Band correction services
- Millimeter PCV repeatability (⩽2mm)
- Improved signal filtering and excellent multipath rejection
- Ruggedized enclosure for tough environments