

HARXON HIGH PRECISION GNSS ANTENNAS

Series	DEM GNSS Antenna						Rugged Antenna			Survey OEM Antenna		
Model	HR-20000-010-000000	HR-20000-020-000000	HR-20000-030-000000	HR-20000-040-000000	HR-20000-050-000000	HR-20000-060-000000	HR-20000-070-000000	HR-20000-080-000000	HR-20000-090-000000	HR-20000-100-000000	HR-20000-110-000000	HR-20000-120-000000
Image												
RF	L1/L2	L1/L2/E5	L1/L2	L1/L2/E5	L1/L2	L1/L2	L1/L2/E5	L1/L2/E5	L1/L2/E5	L1/L2/E5	L1/L2/E5	L1/L2/E5
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Weight	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g
RF Power	20W	20W	20W	20W	20W	20W	20W	20W	20W	20W	20W	20W
RF Power (Peak)	100W	100W	100W	100W	100W	100W	100W	100W	100W	100W	100W	100W
Temperature	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C	-40°C
IP Rating	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
IP Rating (Peak)	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Dimensions	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40
Weight	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g	110g
Connector	HR-20000-010-000000	HR-20000-020-000000	HR-20000-030-000000	HR-20000-040-000000	HR-20000-050-000000	HR-20000-060-000000	HR-20000-070-000000	HR-20000-080-000000	HR-20000-090-000000	HR-20000-100-000000	HR-20000-110-000000	HR-20000-120-000000
Compliance	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE

X-SURVEYOEM ANTENNA

- Comprehensive GNSS support: GPS, GLONASS, Galileo, BeiDou in addition to Harxon's own service
- High-precision design with RTK antenna, dual-RTK antenna, RTK-RTK antenna antenna enhanced
- Multiple phase center frequencies: high-precision, high-precision, high-precision positioning accuracy
- Superior sun-tilt tolerance and strong, multi-path mitigation capability
- Over-the-air magnetic compatibility for surveying

ABOUT HARXON

Founded in 2008, Harxon Corporation is a subsidiary company of Bostar (stock code: 802273), the first company listed in China's satellite navigation industry.

Harxon Corporation is active in the 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, performance and safety, intelligent transportation, intelligent connected vehicles and autonomous driving.

Recently, Harxon has 17 trading subsidiaries, over 400 employees and more than 100 patents, with an annual output value of 100 million yuan. Harxon has become a leading company in the field of satellite positioning antennas in China.

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



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HIGH PRECISION GNSS ANTENNA SELECTION GUIDE



HARXON HIGH PRECISION GNSS ANTENNAS

Series	Survey GNSS Antenna					Choke Ring Antenna					Aviation Antenna					Helix Antenna														
Model	HX-CSX633A	HX-CSX601A	GPS1000	GPS600	GPS500	HX-CS3607A	HX-CGX611A	HX-CGX601A	HX-CGX606A	HX-CG7601A	HX-CA7601A	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	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	UAV	
GPS	L1/L2/L5	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/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/L3	L1/L2/L3	L1/L2/L3	L1	L1/L2		
GALILEO	E1/E5a/E5b/E6	E1/E5a/E5b/E6	E1/E5a/E5b/E6	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	E1/E5a/E5b	E1/E5a/E5b	E1/E5a/E5b	E1	E1	E1	
BDS	B1I/B2I/B3I/B1C/B2a/B2b	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1I/B2I/B3	B1
WiFi/BT																2.4-5.8GHz														
L-Band	●	●	●	●			●	●	●		●					●	●	●	●	●	●	●	●							
Peak Gain	5.5dBi	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)	L2: 40±2dB L1: 38±2dB	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	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	≤2dB	≤1.5dB	≤1.5dB	≤1.5dB	≤1.5dB	≤1.5dB	≤1.5dB	≤1.5dB	
DC-Feed	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 35mA	3.3-12V 60mA	3.3-12V 60mA	3.3-12V 60mA	3.3-12V 60mA	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 45mA	3.3-12V 35mA	3.3-12V 45mA	3.3-5V 55mA	3.3-12V 55mA	3.3-5V 55mA	3.3-12V 55mA	3.3-5V 55mA	3.3-12V 55mA	3.3-5V 55mA	3.3-12V 55mA	3.3-12V 55mA	3.3-12V 55mA	3.3-12V 55mA	3.3-12V 35mA	3.3-12V 35mA	3.3-12V 55mA	
Dimension	Φ152*57.7mm	Φ173.4×62.6mm	Φ152*62.2mm	Φ152*62.2mm	Φ152*62.2mm	Φ152*62.2mm	Φ185*148mm	Φ379*312mm	Φ322*261mm	Φ322*261mm	Φ90*27.4mm	Φ90*27.4mm	115*71.8*27.4mm	Φ90*27.4mm	Φ90*27.4mm	Φ44*37mm	25mm×107mm	Φ44*31.7mm	Φ32.2*45.8mm	Φ43.6*40.8mm	Φ30*34mm	Φ44*28mm	Φ40*82.6mm	Φ40*75.2mm	Φ23.8*46.8mm	Φ27.5*59mm	Φ27.5*59mm	Φ27.5*59mm		
Weight	600g	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	TNC Female	SMA Female	SMA Female	GNSS: MCK-50KE WiFi: MCK-50KE	SMA Male	MCK-50KE	SMA Male	SMA Male	U.FL-P-06G1-A	IPEX Female	SMA Male	SMA Male	IPEX	SMA Male	SMA Male	SMA Male		
Compliance	FCC, CE, RoHS	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 ruggedized protection

● CHOKERING 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 facilitate 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 for easy integration

● RUGGEDIZED ANTENNA

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