

# 华大北斗高精度GNSS天线产品

华大北斗GNSS天线产品，采用华大北斗高精度有源天线技术，能提供良好的天线效能，如高增益、低轴比、低信号杂讯比，以及良好的带外抑制制度，可搭载GNSS信号接收机进行使用。全面的天线产品系列，为您提供单频/双频高精度移动站及参考站GNSS天线产品，为您的高精度应用提供全套解决方案。

Secure  
GNSS



## 高精度单频移动站天线

AGR6301高精度单频有源天线是一款具备多频带及高效能的GNSS外置天线，可搭载GNSS信号接收机进行使用，被广泛应用于汽车、工业等导航定位相关领域。



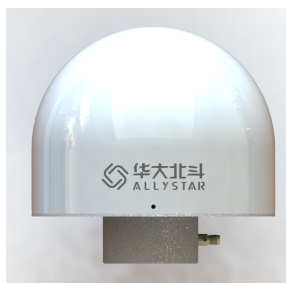
## 高精度单频参考站天线

AGR5301高精度单频参考站有源天线是一款具备高效能及高可靠度的GNSS外置天线，可搭载GNSS信号接收机进行使用，可广泛应用于测量、工业等导航定位相关领域。



## 高精度多频移动站天线

AGR6302/AGR6303高精度双频有源天线是一款具备支持多系统及高效能的GNSS外置天线，可搭载GNSS信号接收机进行使用，被广泛应用于汽车、工业等导航定位相关领域。



## 高精度多频参考站天线

AGR5302高精度多频参考站有源天线是一款具备高效能及高可靠度的GNSS外置天线，可搭载GNSS信号接收机进行使用，可广泛应用于测量、工业等导航定位相关领域。



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## 技术指标

	AGR6301	AGR5301	AGR6302 AGR6303	AGR5302
<b>卫星接收模式</b>	GPS: L1/L1C BDS: B1I/B1C GLONASS: L1OF/L1OC Galileo: E1 QZSS: L1-C	GPS: L1/L1C BDS: B1I/B1C GLONASS: L1OF/L1OC Galileo: E1 QZSS: L1-C	GPS: L1/L2C/L5C BDS: B1I/B1C/B2I/B2a GLONASS: L1OF/L1OC Galileo: E1/E5a/E5b QZSS: L1-C/L2C/L5 IRNSS: L5	GPS: L1/L2C/L5C BDS: B1I/B1C/B2I/B2a GLONASS: L1OF/L1OC Galileo: E1/E5a/E5b QZSS: L1-C/L2C/L5 IRNSS: L5
<b>天线特性</b>				
天线结构	双馈网路	双馈网路	四馈网路	宽频双馈网路
天线轴比	<2dB	<2dB	<2dB	<2dB
天线增益	3.8~5dBi	2.2~3.5dBi	3~5dBi	3~5dBi
天线极化	右旋极化	右旋极化	右旋极化	右旋极化
相位中心变化量	-	+/-2mm	--	+/-1.5mm
<b>电气特性</b>				
LNA增益	25dB typ	36dB typ	31dB typ	31dB typ
噪声系数	≤2dB	≤2.6dB	≤2dB	≤2dB
输出SWR	<1.5	<1.5	<2	<2
输出阻抗	50 Ohm	50 Ohm	50 Ohm	50 Ohm
带外抑制	>1640MHz(>40dB)	频带内±100MHz>60dB	频带内±80MHz>35dB	频带内±100MHz>60dB
电压	1.8~5.5V	1.8~5.5V	2.5~5.5V	2.5~5.5V
功耗	7.5mA (3.3V typ. )	13mA (3.3V typ. )	22mA (3.3V typ. )	<50mA
<b>机械规格</b>				
尺寸	L48.5xW47xH14mm	D91XH109mm	D79XH24mm	D250XH243mm
接口类型	SMA-M-M	N type FF	SMA-M-M	TNC FF
安装方式	自带磁性	5/8 英制螺牙	自带磁性	5/8 英制螺牙
防水特性	IP67	IP67	IP67	IP67
<b>环境参数</b>				
工作温度	-40 to +85° C	-40 to +85° C	-40 to +85° C	-40 to +85° C
符合标准	RoHS及REACH标准	RoHS及REACH标准	RoHS及REACH标准	RoHS及REACH标准

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# ALLYSTAR High Precision GNSS Antenna Family

ALLYSTAR GNSS antenna products employ ALLYSTAR high precision active antenna technology, providing high performance, with high gain, great axial ratio, low noise figure, and a good out-band rejection. The comprehensive antenna product family provides you a complete high precision solution, including single-band/dual-band rover and base GNSS antennas.



## Single-band Antenna/Rover Station

AGR6301 is a high precision single-band GNSS active antenna for rover station. It can suit a wide variety of automotive and industrial navigation fields.



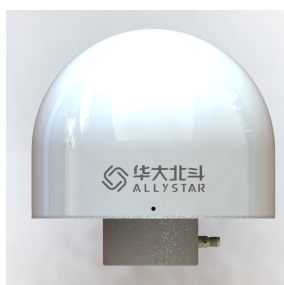
## Single-band Antenna/Base Station

AGR5301 is a high precision single-band GNSS active antenna for base station. It can suit a wide variety of measurement and industrial navigation fields.



## Dual-band Antenna/Rover Station

AGR6302/AGR6303 is a high precision dual-band GNSS active antenna for rover station. It can suit a wide variety of automotive and industrial navigation fields.



## Dual-band Antenna/Base Station

AGR5302 is a high precision dual-band GNSS active antenna for base station. It can suit a wide variety of measurement and industrial navigation fields.



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## GENERAL SPECIFICATIONS

	AGR6301	AGR5301	AGR6302 AGR6303	AGR5302
<b>Satellite Reception</b>	GPS: L1/L1C BDS: B1I/B1C GLONASS: L1OF/L1OC Galileo: E1 QZSS: L1-C	GPS: L1/L1C BDS: B1I/B1C GLONASS: L1OF/L1OC Galileo: E1 QZSS: L1-C	GPS: L1/L2C/L5C BDS: B1I/B1C/B2I/B2a GLONASS: L1OF/L1OC Galileo: E1/E5a/E5b QZSS: L1-C/L2C/L5 IRNSS: L5	GPS: L1/L2C/L5C BDS: B1I/B1C/B2I/B2a GLONASS: L1OF/L1OC Galileo: E1/E5a/E5b QZSS: L1-C/L2C/L5 IRNSS: L5
<b>Performance</b>				
Architecture	Dual feed network	Dual feed network	Dual feed network	Multi-band dual feed
Axial ratio	<2dB	<2dB	<2dB	<2dB
Antenna gain	3.8~5dBi	2.2~3.5dBi	3~5dBi	3~5dBi
Polarization	RHCP	RHCP	RHCP	RHCP
PCV	—	±2mm	--	±1.5mm
<b>Electrical</b>				
LNA gain	25dB typ	36dB typ	31dB typ	31dB typ
Noise figure	≤2dB	≤2.6dB	≤2dB	≤2dB
Output SWR	<1.5	<1.5	<2	<2
Output impedance	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Out-band rejection	>1640MHz(>40dB)	In-band±100MHz>60dB	In-band±80MHz>35dB	In-band±100MHz>60dB
Support voltage	1.8~5.5V	1.8~5.5V	2.5~5.5V	2.5~5.5V
Power consumption	7.5mA (3.3V typ. )	13mA (3.3V typ. )	22mA (3.3V typ. )	<50mA
<b>Mechanicals</b>				
Size	L48.5xW47xH14mm	D91XH109mm	D79XH24mm	D250XH243mm
Interface	SMA-M-M	N type FF	SMA-M-M	TNC FF
Mounting	Magnet mount	5/8" screws	Magnet mount	5/8" screws
Water proof	IP67	IP67	IP67	IP67
<b>Environment</b>				
Operation temp.	-40 to +85° C	-40 to +85° C	-40 to +85° C	-40 to +85° C
Certification	RoHS & REACH	RoHS & REACH	RoHS & REACH	RoHS & REACH

## CONTACT US

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