

ANTENNA PRODUCTS BROCHURE

**A Leading Manufacturer of Microwave Dielectric
Ceramic Components**

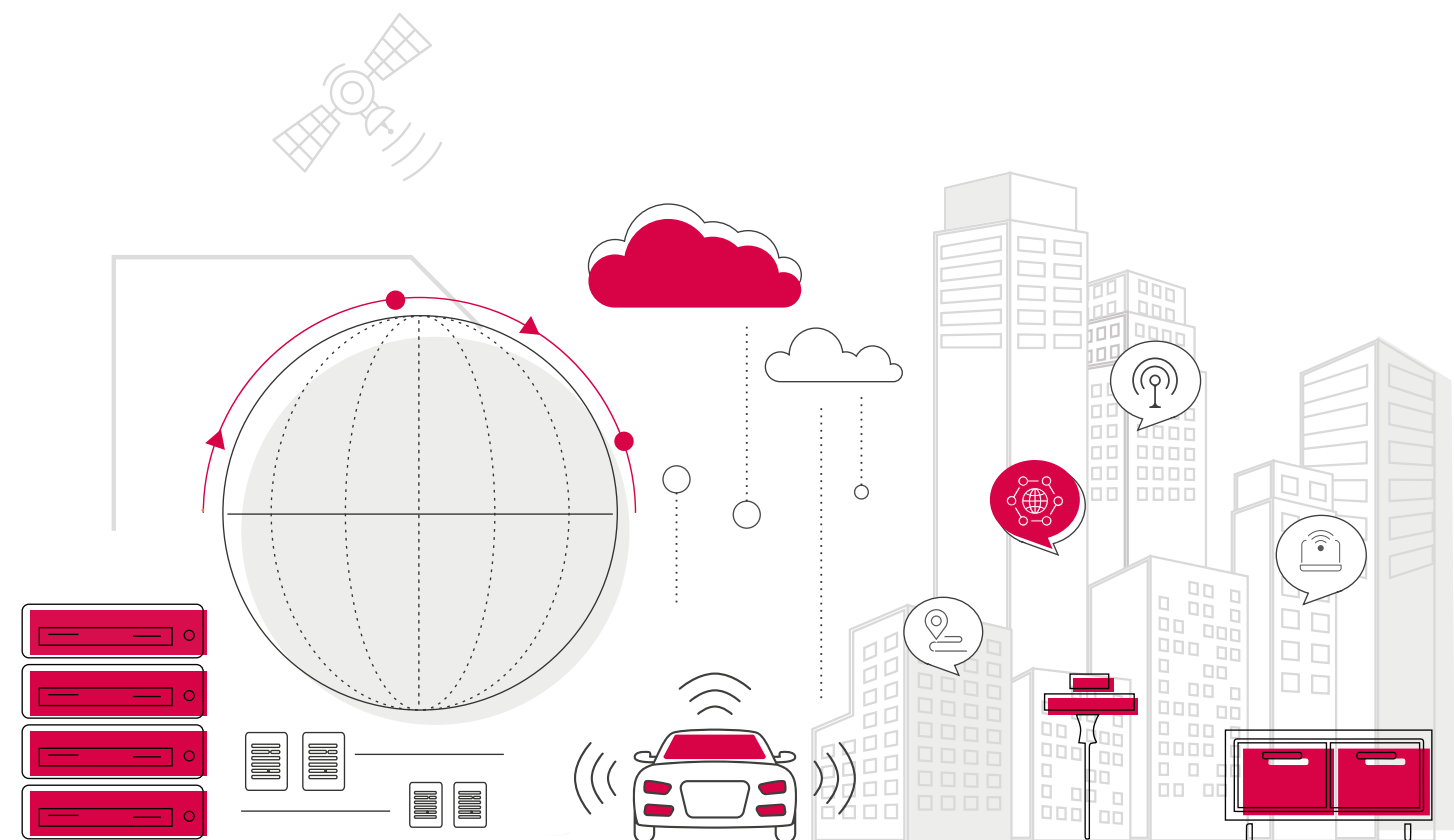
Jiaxing Glead Electronics. Co.,Ltd.

📍 66, Zhengyuan Road, Jiaxing City, Zhejiang Province, China
📞 0573-83651818
📧 Glead-jx@bdstar.com
🌐 http://www.glead.com.cn/index_en.html

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2026

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ABOUT GLEAD ELECTRONICS

Glead Electronics is a core manufacturing entity within the BDStar Group, specializing in the research, development, and manufacturing of microwave dielectric ceramic materials, GNSS antennas, and related passive RF components. With strong in-house capabilities spanning materials engineering, RF design, and antenna integration, Glead supports customers with flexible customization and stable, high-volume mass production.

Backed by BDStar's system-level GNSS expertise, including the provision of key GNSS hardware components and high-precision correction data services, and leveraging Harxon's excellence in high-precision GNSS antenna R&D, Glead focuses on translating advanced antenna designs into stable, scalable mass production. With end-to-end in-house capabilities—from microwave dielectric materials and RF circuit design to antenna integration—Glead supports efficient manufacturing and accelerated market deployment.

Together, we deliver scalable, high-reliability antenna solutions for industrial IoT, intelligent transportation, automotive, and wireless communication applications, meeting the stringent requirements of global OEM and Tier-1 customers with precision, consistency, and efficiency.

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CERAMIC ANTENNA

Ceramic antennas are dielectric antennas with excellent performance manufactured from microwave dielectric ceramic materials through sintering, silver coating, and firing. Ceramic antennas are mainly classified into GNSS positioning antennas and wireless communication antennas classified by functions. Microwave dielectric ceramics have a high dielectric constant, and silver layers are used as electrodes on the front and back sides. A piezoelectric effect is generated under high DC voltage to achieve signal reception and reflection.



Satellite Positioning Antenna

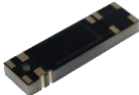
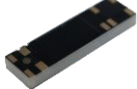
Multi-frequency Multi-constellation

Model	Frequency	Gain	Output VSWR	Size	Polarization	Image
SPATB1L1G1364 BL5456_JHS04	GPS L1/L5 BDS B1/B2a GLONASS G1 GALILEO E1/E5a	3.5dBi@B1L1E1G1 2.5dBi@L5E5aB2a	≤2.0	45*45*6mm+36*36*4mm	RHCP (Dual-Feed)	
SPATL1364BL54 08_G003	GPS L1/L5 BDS B1 GLONASS G1 GALILEO E1/E5a	3.5dBi@B1L1E1G1 2.5dBi@L5E5a	≤2.0	40*40*8mm+36*36*4mm	RHCP (Dual-Feed)	
SPATL1364BL53 66_J7013	GPS L1/L5 BDS B1/B2a GLONASS G1 GALILEO E1/E5a	3.0dBi@B1L1E1G1 1.5dBi@L5E5a	≤2.0	36*36*6mm+36*36*4mm	RHCP (Dual-Feed)	
GGL5-36H325H 4-JHY06	GPS L1/L5 BDS B2a GLONASS G1 GALILEO E1/E5a	3.0dBi	≤1.5	36*36*3mm+25*25*4mm	RHCP (Single-Feed)	
SPATL1254BL53 34_JM02	GPS L1/L5 BD B1/B2a GALILEO E1/E5a	1.0dBi@B1L1E1G1 1.0dBi@L5E5a	≤2.0	33*33*4mm+25*25*4mm	RHCP (Dual-Feed)	
SPATL1256BL52 55_JWNBK01	GPS L1/L5 BDS B1/B2a GLONASS G1 GALILEO E1/E5a	2dBi@L1B1G1 0.8dBi@L5E5a	≤2.0	25*25*5mm+25*25*6mm	RHCP (Dual-Feed)	
SPATL1254BL52 54_XYW58	GPS L1/L5 BDS B1 GLONASS G1	0dBi@L1B1G1 0dBi@L5E5a	≤2.0	25*25*4mm+25*25*4mm	RHCP (Dual-Feed)	
SPATB1184BB22 54_J7010	GPS L1/L5 BD B1/B2a GALILEO E1/E5a	2.5dBi@B1L1 2.0dBi@L5E5a	≤2.0	25*25*4mm+18*18*4mm	RHCP (Dual-Pin)	
SPATB1184BB22 54_J7011	GPS L1/L5 BDS B1/B2a GALILEO E1/E5a	2.5dBi@B1L1 2.0dBi@L5E5a	≤2.0	25*25*4mm+18*18*4mm	RHCP (Single-Feed)	
DADL1L5364 _001	GPS L1/L5 BDS B1/B2a GLONASS G1 GALILEO E1/E5a	3.5dBi@L1B1G1 0dBi@L5E5aB2b	≤2.0	36*36*4mm	RHCP (Dual-Feed)	

Satellite Positioning Antenna

Model	Frequency	Gain	Output VSWR	Size	Polarization	Image
DAD1585X36C 16_BLG70	GPS L1 BDS B1/B1C GALILEO E1 GLONASS G1 QZSS L1	2.5dBi@B1 3.5dBi@L1G1E1	≤2.0	36*36*6mm	RHCP (Dual-Feed)	
DAS1582R36D 36-3F	GPS L1 GLONASS G1 GALILEO E1 BD B1/B1C QZSS L1	4dBi	≤2.0	36*36*6mm	RHCP (Single-Feed)	
DAS1568R25F14 -B1L1-A	GPS L1 BDS B1	3.0dBi	≤2.0	25*25*4mm	RHCP (Single-Feed)	
DAS1575R25C 12_70	GPS L1 GLONASS G1	3.0dBi	≤2.0	25*25*2mm	RHCP (Single-Feed)	
DAS1575R20D 14_YWNBK01	GPS L1	3.0dBi	≤2.0	20*20*4mm	RHCP (Single-Feed)	
DAS1582R18D 54_2J116-K40	GPS L1 BDS B1 GLONASS G1	-0.5dBi@L1B1 1.5dBi@G1	≤3.0@B1L1 ≤2.0@G1	18*18*4mm	RHCP (Single-Feed)	
DAS1575R15C 14_30	GPS L1	0.5dBi	≤1.5	15*15*4mm	RHCP (Single-Feed)	
DAS1575R12C 14_Y2001	GPS L1	-2.0dBi	≤1.5	12*12*4mm	RHCP (Single-Feed)	
DAS1575R10C 14_20	GPS L1	-4.0dBi	≤1.5	10*10*4mm	RHCP (Single-Feed)	
DAI1592R25C 14_RG7	GPS L1 GLONASS G1	3.0 dBi	≤2.0	25*25*4mm	RHCP (SMD)	
DAI1592R25C 12_RG8	GPS L1 GLONASS G1	2.0 dBi	≤2.0	25*25*2mm	RHCP (SMD)	
DAI1585R18E 14_W240611	GPS L1 BDS B1 GLONASS G1	1.5 dBi	≤2.0	18*18*4mm	RHCP (SMD)	
DAI1176X104C 13_C02A	GPS L5	-1dBi	≤2.5	10*4*3mm	Linear (SMD)	
DAI1032_W06A	GPS L1/L2/L5 BDS B1/B2/B3 GALILEO L1/E5a/E5b GLONASS G1/G2/G3	2.5dBi	≤3.5@1557~1612MHz ≤2.5@1164~1278MHz	10*3.2*1.5mm	Linear (SMD)	

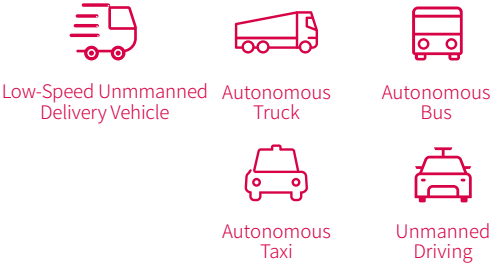
Wireless Communication Antenna

Model	Frequency	Gain	Output VSWR	Size	Polarization	Image
DAI698-2700_W12A	698-960MHz 1700-2700MHz	1.1dBi@698-960MHz 4.5dBi@1700-2700MHz	≤3.5	40*5*5mm	Linear (SMD)	
DAI600-4000_W09A	698-960MHz 1700-2700MHz	1.76dBi@698-960MHz 4.8dBi@1700-2700MHz	≤3.5	38*8*3mm	Linear (SMD)	
DAI790_2700_W07A	790-960MHz 1700-2700MHz	1.5dBi@698-960MHz 4.5dBi@1700-2700MHz	≤3.5	33*6*3mm	Linear (SMD)	
PAI8023M4G_2808R	698-960MHz 1710-2690MHz	2.15dBi@698-960MHz 3.03dBi@1700-2700MHz	≤3.5	28*8*3.3mm	Linear (SMD)	
PAI8023M4G_2808L	698-960MHz 1710-2690MHz	2.15dBi@698-960MHz 3.03dBi@1700-2700MHz	≤3.5	28*8*3.3mm	Linear (SMD)	
GSM_PA1_900-1800A	890-960MHz 1710-2170MHz	1.5dBi@890-960MHz 3.0dBi@1710-2170MHz	≤3.0	24*5.6*4.4mm	Linear (SMD)	
DAI902_928_W10A	902-928MHz	1.3dBi@902-928MHz	≤3.5	9*3*0.63mm	Linear (SMD)	
DAI2400-5800_W05A	2400-2500MHz 5200-5850MHz	3.5dBi@2400-2500MHz 5.5dBi@5200-5850MHz	≤3.5	3*4*4mm	Linear (SMD)	
DAI2400-2500_W04A	2400-2500MHz	3.5dBi	≤3.5	3*4*4mm	Linear (SMD)	

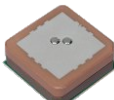
VEHICLE ANTENNA

High-precision positioning technology is a critical component of intelligent connected vehicles and serves as one of the core technologies for achieving vehicle autonomy. This technology involves receiving signals through a high-precision positioning antenna. By employing RTK algorithms, various errors introduced by the data link are eliminated, resulting in positioning accuracy at the centimeter or even millimeter level.

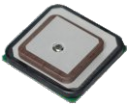
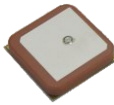
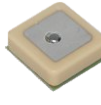
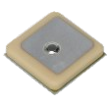
GLEAD offers extensive antenna solutions tailored for various autonomous vehicles. These solutions ensure reliable satellite signal tracking and streamline vehicle mass production. When integrated with high-precision maps, these antennas enable all-weather navigation and comprehensive positioning for autonomous driving.



Standard-Precision Positioning Antenna

Model	Frequency	Gain	LNA Gain	Noise Figure	Operating Voltage (Output Current)	Connector	Size	Image
GLA_JM0002	GPS: L1,L5 GLONASS: G1 BDS: B1I,B1c,B2a GALILEO: E1 QZSS: L1,L5	2.5dBi@L1 1.0dBi@L5	28±3dB	≤2.0dB	3-5V (30mA)	Standard FAKRA Customizable (Magnetic Mounting)	L67*W67*H21.5mm (Size without pad)	
DAMB1B2AR4DK1L_C01_J3M_PM	GPS:L1,L5 GLONASS:G1 BDS: B2a/B2IB1I,B1C GALILEO:E1,E5a QZSS:L1,L5	3.0dBi	28±3dB	≤2.0dB	3-5V (15±3mA at 3.3V)	Standard SMA Customizable (Adhesive mounting)	L51.4*W51.4*H16.7mm (Size without pad)	
DAM1582R2J1Y_AT_04H_J5M	BDS: B1 GPS: L1 GLONASS: G1 GALILEO: E1 QZSS: L1	3.5dBi	32±3dB	≤1.5dB	3.3±0.3V (9±3mA at 3.3V)	Standard SMA Customizable (Magnetic mounting)	L55*W47*H17.7mm	
WAM1582A4ZB1LC_01_AW03V2.0_J3M	BDS: B1 GPS: L1 GLONASS: G1 GALILEO: E1 QZSS: L1	3.5dBi	28±3dB	≤3.0dB	3-5V (≤30mA at 3.3V)	Standard SMA Customizable (Magnetic mounting)	L49*W37*H19mm	
DAM1575A4A1LC01_AC03_J3M	GPS: L1	4.5dBi	28±3dB	≤1.5dB	3-5V (8.5±3mA at 3.3V)	Standard SMA Customizable (Magnetic mounting)	L48.6*W39.2*H15.2mm	
DAML1L5ARWNO_Y_J306_P100MM	GPS: L1/L5 BDS: B1/B2a GALILEO: E1/E5a	3.0dBi	28±3dB	≤2.0dB	3-5V (20±3mA at 3.3V)	Standard IPEX Customizable (Screws mounting)	L41*W41*H15.1mm	
DAML1L2ARWNO_YJ_306-30V2.0_S195MM	GPS: L1/L2 BDS: B1/B2 GALILEO: E1/E5b	3.0dBi	30±3dB	≤3.0dB	3-5V (20±3mA at 3.3V)	Standard IPEX Customizable (Screws mounting)	L41*W41*H15.1mm	
DAMB1L1L5AA4NO_HNSWV2_S100MM	GPS: L1/L5 BDS: B1/B2a GALILEO: E1/E5a	2.5dBi @B1L1 2.0dBi @L5E5a	12±3dB	≤2.0dB	3-5V (8±3mA at 3.3V)	Standard IPEX Customizable (Structural Mounting)	L25*W25*H11.5mm	

Standard-Precision Positioning Antenna

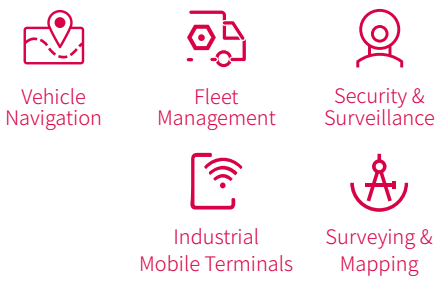
Model	Frequency	Gain	LNA Gain	Noise Figure	Operating Voltage (Output Current)	Connector	Size	Image
DAML1L5IB2NO_YJ333_P60MM	GPS: L1/L5	0dBi@L1B1G1 0dBi@L5E5a	14±3dB	≦4dB	3-5V (10±3mA at 3.3V)	Standard IPEX Customizable	L25*W25*H6.8mm	
DAML1L5CA2NO_P69MM	GPS: L1/L5 BDS: B1/B2a GALILEO: E1/E5a	2.5dBi@B1L1 2.0dBi@L5E5a	18±3dB	≦1.5dB	3.3±0.3V (4.5±3mA at 3.3V)	Standard IPEX Customizable (Structural Mounting)	L25*W25*H11.3mm	
DAM1568A2NO_YJ72V2.0_P100MM	GPS: L1 BDS: B1	3.5dBi	28±3dB	≦1.5dB	3.3±0.3V (8.5±3mA at 3.3V)	Standard IPEX Customizable (Structural Mounting)	L25*W25*H7mm	
DAM1568B2NO_YJ72V2.0_P100MM	GPS: L1 BDS: B1	3.0dBi	28±3dB	≦1.5dB	3.3±0.3V (8.5±3mA at 3.3V)	Standard IPEX Customizable (Structural Mounting)	L25*W25*H4.8mm	
DAM1568C2NO_YJ124_P70MM	GPS: L1 BDS: B1	3.0dBi	18±3dB	≦1.5dB	3.0±0.3V (6±2mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L18*W18*H6.6mm	
DAM1575I2NO_YJ078_XD100MM	GPS: L1	1.5dBi	18±3dB	≦1.5dB	3.0±0.3V (6±2mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L18*W18*H4.6mm	
DAM1575D2NO_YJ061V2.0_X70MM	GPS: L1	0.5dBi	20±3dB	≦1.5dB	3.0±0.3V (6±2mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L15*W15*H7.2mm	
DAM1575J2NO_YJ215_XC25MM	GPS: L1	0 dBi	18±3dB	≦1.5dB	3.0±0.3V (5±3mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L15*W15*H4.6mm	
DAM1575E2NO_YJ57_X25MM	GPS: L1	' -2.0dBi	18±3dB	≦1.5dB	3.0±0.3V (3±1mA at 3.3V)	Standard IPEX Customizable (Structural Mounting)	L12*W12*H6.6mm	
DAM1575G2NO_YJ122_X34MM	GPS: L1	' -4.0dBi	18±3dB	≦2.0dB	3.0±0.3V (6±2mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L10*W10*H6.6mm	
RTKLCL136H6NO_P100MM	GPS: L1 BDS: B1	4dBi	30±3dB	≦2.0dB	3-5V (9.5±3mA at 3.0V)	Standard IPEX Customizable (Structural Mounting)	L36*W36*H9.3mm	

Communication and Navigation Antenna

Model	Configuration	Electrical	LNA Gain	Connector	Size	Image
DAMBA4DF10T11_K500MM	1*GNSS 1*4G	BD:B1 GPS:L1 2G/3G/4G	28±3dB	Standard FAKRA Customizable (Adhesive mounting)	W70*L45*H17.5mm (Size without pad)	
QDAMBA4DF210G11_K1.3M_C6202	1*GNSS 1*4G	BD:B1 GPS:L1 2G/3G/4G	28-31dB	Standard FAKRA Customizable (Adhesive mounting)	L60*W53*H15mm	
DAMP5GL1L5RA1_J2M	1*GNSS 4*5G	GPS:L1,L5 5G Main & Vice	28±3dB	Standard SMA Customizable (Adhesive mounting)	L131.5*W70.3*H21mm	
DAMBA4CV1T1H_ZQ_J2M-N_J2M-R	1*GNSS 1*4G	BD:B1 GPS:L1 2G/3G/4G	30±3dB	Standard SMA Customizable (Adhesive mounting)	L110*W42*H18.3mm	
DAMTA4CV10T11M24_ZQ_K2.5M	1*GNSS 2*4G	BD:B1 GPS:L1 2G/3G/4G Main & Vice	30±3dB	Standard FAKRA Customizable (Adhesive mounting)	L124*W52.5*H24mm	
DAMGA4E10G11X_K1M_K1M	1*GNSS 1*4G	GPS:L1 GLONASS:G1 2G/3G/4G	25±3dB	Standard FAKRA Customizable (Adhesive mounting)	φ76.8*H15mm	
QDAMTA2HR10TM11_J280MM_26301425	1*GNSS 2*4G	BD:B1 GPS:L1 2G/3G/4G Main & Vice	28±3dB	Standard FAKRA Customizable (Adhesive mounting)	L120*W50*H21.7mm	
QDAMTA4HR10TM11_J865MM_26262568	1*GNSS 2*4G	BD:B1 GPS:L1 2G/3G/4G Main & Vice	28±3dB	Standard FAKRA Customizable (Adhesive mounting)	L120*W50*H22.3mm	
DAMTA4RA10T11M22_ML208302_K3M	1*GNSS 2*4G	BD:B1 GPS:L1 2G/3G/4G Main & Vice	28±3dB	Standard FAKRA Customizable (Adhesive mounting)	L124*W52.5*H24mm	
DAMTA4YH10T11M24_K1750MM	1*GNSS 2*4G	BD:B1 GPS:L1 GLONASS:G1 2G/3G/4G Main & Vice	29±3dB	Standard FAKRA Customizable (Adhesive mounting)	L130*W58*H22.8mm	
DAMGA4Y1G1X_J3M_J3M-R	1*GNSS 1*4G	GPS:L1 GLONASS:G1 2G/3G/4G	28±3dB	Standard SMA Customizable (Adhesive mounting)	φ75*H14.1mm	

G-MOUSE

G-Mouse integrates a GNSS positioning module and a GNSS antenna into a single, compact unit. It is widely used in applications that require high positioning accuracy, stable performance, and easy integration. The device typically connects via four wires (TX,RX,VCC,and GND)and outputs positioning data via the NMEA-0183 protocol, enabling fast and straight forward integration while enhancing overall system stability and reliability.

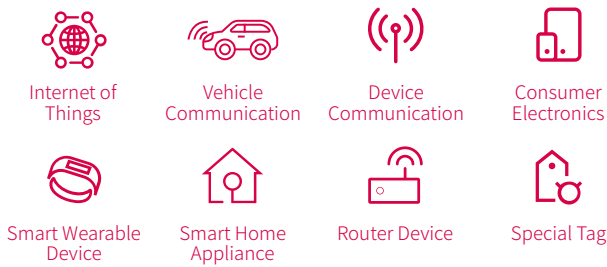


G-MOUSE

Product Model	Frequency Range	Model	Communication Protocol	Positioning Accuracy	Cold / Warm Start Time	Connector (Mounting Method)	Image
ZYM-GM7031-MF	GPS+BDS (L1+B1I)	MTK AG3331	RS-232	<2.0m (CEP50)	<35S/<1S	5557 Connector	
ZYM-GM7033-MF	GPS+GLO (L1+G1)	MTK MT3333	RS-232	<2.0m (CEP50)	<35S/<1S	5557 Connector	
ZYM-GM2464-MF	BDS(B1I+B2a)+INS	ZHONGKEWEI AT9880B	RS-232	<1.0m (CEP50)	<35S/<1S	5557 Connector	
ZYM-GM626-MF	BDS (B1I)	ZHONGKEWEI AT6668B	RS-232	<2.0m (CEP50)	<30S/<1S	5557 Connector	

WIRELESS COMMUNICATION ANTENNA

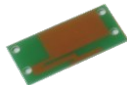
Communication antennas generally refer to antennas that transmit or receive signals between wireless devices. They usually consist of transmission lines and radiating elements. The transmitter couples the alternating current signal containing information to the transmission line, and radiates the alternating electromagnetic field into free space through the transmitting antenna. Electromagnetic waves propagate in the form of traveling waves in free space. At the position of the receiving antenna, the traveling wave will be received by the receiving antenna and converted into an alternating current signal, and finally processed at the receiver to complete communication.



Cellular Communication Antenna

Model	Frequency	Gain	Output VSWR	Connector	Mounting	Size	Image
PAMQ5GM4N1_J500MM	5G Main 820MHz~960MHz 1710MHz~5000MHz	3.0@820~960 7.0@1710-5000	≤3.0	Standard SMA Customizable	Adhesive mount	L131.5*W73.5*H20mm	
	5G Vice 1710MHz~5000MHz	7.0@1710-5000					
GSM_PM900U11_CB-R_K1.5M	824-960MHz 1710-2690MHz	2.5dBi @824-960MHz 5.4dBi @1710-2690MHz	≤2.0	Standard FAKRA Customizable	Adhesive mount	138*21mm	
LTE_PM900U11V 5.0_K3M	820MHz~960MHz 1710MHz~2170MHz 2500MHz~2700MH	1.0@820~960 2.0@1710~2170 2.0@2500~2700	≤2.0	Standard FAKRA Customizable	Adhesive mount	L108*W18*H4.5mm	
GSM_PM700WT1_CBT_J3M	698-960MHz 1710-2690MHz	2dBi @698-960MHz 3dBi @1710-2690MHz	≤2.0	Standard SMA Customizable	Adhesive mount	L117*W21.5*H4.5mm	
GSM_PM900V1_CB_J800MM	824-960MHz 1710-2690MHz	2dBi @824-960MHz 3dBi @1710-2690MHz	≤2.0	Standard SMA Customizable	Adhesive mount	L78.3*W25.2*H7.1mm	
GSM_PL900K1_J	824-960MHz 1710-2690MHz	2dBi @824-960MHz 3dBi @1710-2690MHz	≤2.0	SMA Connector	Adhesive mount	L157*W21mm	

Cellular Communication Antenna

Model	Frequency	Gain	Output VSWR	Connector	Mounting	Size	Image
GSM_PL900C1_J	824-960MHz 1710-2160MHz	1dBi @824-960MHz 2.5dBi @1710-2170MHz	≤2.0	SMA Connector	Screw mounting	L108.1*W10mm	
WIFI_PL2400J1D_J	2400-2500MHz 5100-5900MHz	2.5dBi @2400-2500MHz 5dBi @5150~5850MHz	≤2.0	SMA Connector	Screw mounting	L86*W12mm	
LTE_PL900W1_G3M	824-960MHz 1710-2690MHz	3dBi @824-960MHz 5.5dBi @1710-2690MHz	≤2.0	Standard SMA Customizable	Magnetic mounting	Φ68*H276mm	
WIFI_WA2400A1D V2.0_G5M	2400-2500MHz 5725~5850MHz	5dBi @2400-2500MHz 5dBi @5725~5850MHz	≤2.0	Standard SMA Customizable	Magnetic mounting	Φ45*H150.5mm	
DVB_WA433EB1_J1.5M	430-470MHz	1dBi @433MHz	≤2.0	Standard SMA Customizable	Magnetic mounting	Φ45*H145mm	
DVB_WA433XA1_G1.5M	433MHz	3.5dBi @433MHz	≤2.0	Standard SMA Customizable	Magnetic mounting	Φ62*H212mm	
FP90180A60NO_P120MM	824-960MHz 1710-2690MHz	2.7dBi @824-960MHz 2.8dBi @1710-2690MHz	≤3.5	Standard IPEX Customizable	Adhesive mount	60*19mm	
PAD900A3920NO_P100MM	824-960MHz 1710-2690MHz	1.5dBi @824-960MHz 3.0dBi @1710-2690MHz	≤3.5	Standard IPEX Customizable	Adhesive mount	39*20mm	
WIFI_PAD2458A40 19NO_P60MM	2400-2500MHz 5150-5850MHz	5.9dBi @2400-2500MHz 7.2dBi @5150-5850MHz	≤3.0	Standard IPEX Customizable	Adhesive mount	40*18.5mm	
WIFI_FP240250A28 43NO_P120MM	2400-2500MHz	3.11dBi @2400-2500MHz	≤3.0	Standard IPEX Customizable	Adhesive mount	28.45*14mm	
FP2458A2220NO_P55MM	2400-2500MHz 5100-5900MHz	1dBi @2400-2500MHz 2dBi @5100-5900MHz	≤2.5	Standard IPEX Customizable	Adhesive mount	22*20mm	

HIGH PRECISION TIMING ANTENNA

Timing antennas are mainly used for base station communication timing, emergency communication timing, and power-grid synchronization. These antennas utilize the high-precision atomic clock aboard satellites to transmit real-time satellite time, which is achieved by receiving the carrier signal emitted by the satellite.

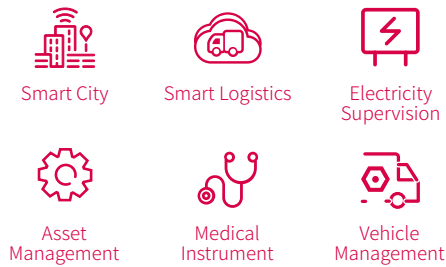


Timing Antenna

Model	Frequency	Gain	LNA Gain	Noise Figure	Operating Voltage	Size (Connector Included)	Connector	Image
WMRL1L5RSWF17_K_28	GPS L1/L5 BDS B1i/B1c/B2a GLONASS L1	3dBi	28±3dB	2.5dB	3~5V (22±8mA)	Φ110.3*105mm	N Female (Pole mounting)	
WMRL1L5RSWF17_K_17	GPS L1/L5 BDS B1i/B1c/B2a GLONASS L1	3dBi	17±3dB	2.5dB	3~5V (22±8mA)	Φ110.3*105mm	N Female (Pole mounting)	
SSAM1582RWD V9V2.0_K	GPS L1 BDS B1i/B1c GLONASS L1	3dBi	28±3dB	3.5dB	2.7-9V	Φ60*54mm	TNC Female	
SSAM1582R4F1 7V2.0_40_K	GPS L1 BDS B1i/B1c GLONASS L1	5.5dBi	40±3dB	2.5dB	3~5V (15±3mA)	Φ110.3*105mm	N Female (Pole mounting)	
SSAM1582R4F1 7V2.0_20_K	GPS L1 BDS B1i/B1c GLONASS L1	5.5dBi	20±3dB	2.5dB	3~5V (10±3mA)	Φ110.3*105mm	N Female (Pole mounting)	

IOT RFID ANTENNA

GLEAD, leveraging cutting-edge UHF specialized electronic tag design technology, has the capability to produce diverse electronic tags, including ceramic, PCB, INLAY, and flexible variants. Our specialized electronic tag production line enables us to offer OEM services or provide electronic tag antennas (excluding IC chips) and electronic tags. IoT RFID antennas find extensive applications in smart city projects (such as gas cylinder management and manhole cover management), temperature monitoring systems, medical instrument management, vehicle management systems, and asset management.



RFID Reader Antenna

Model	Frequency	Gain	Axial Ratio	Output VSWR	Connector	Size	Image
PAM915UN1_ S110MM	866-868 MHz (EU) 902-928 MHz (US)	5.5dBic	≤3dB	≤1.5	Standard SMA Customizable	Antenna: 80*80*6mm Overall: 120*120*8mm	
PAM915TPN1_ S100MM	866-868 MHz (EU) 902-928 MHz (US)	2.5dBic	≤3dB	≤1.5	Standard SMA Customizable	Antenna: 60*60*6mm Overall: 70*70*8mm	
PAM915AN1_ S110MM	866-868 MHz (EU) 902-928 MHz (US)	0.5dBic	≤3dB	≤1.5	Standard SMA Customizable	Antenna: 25*25*4mm Overall: 35*35*5mm	
PAM915WPN1_ S300MM	866-868 MHz (EU) 902-928 MHz (US)	2.2dBic	≤3dB	≤1.5	Standard FAKRA Customizable	Antenna: 40*40*5mm Overall: 50*50*7mm	
PAM915YD1_SK 100MM	902~928MHz	8.0dBic	≤3dB	≤1.5	Standard SMA Customizable	260*220*23.4mm	
UHF_ANT-15-2_ V3_JL01	902~928MHz	2.0dBic	≤3dB	≤1.5	Standard MMCX Customizable	70*70*13.2mm	

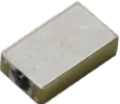
RFID Tag Antenna

Model	Frequency	Compatible Chip	Operating Principle	Operation Temperature	Size	Recognition Distance/Metal	Image
IDA915X2525- YZ25-937	866-868 MHz (EU) 902-928 MHz (US)	Alien H Series/ Impinj M series	EPC/ISO 18000-6C	-20°C~+85°C	25*25*2.75mm	10.5	
IDA915X2509- EP6066	866-868 MHz (EU) 902-928 MHz (US)	Alien H Series/ Impinj M series	EPC/ISO 18000-6C	-20°C~+85°C	25*9*3mm	8	
IDA923X2117- TX21	866-868 MHz (EU) 902-928 MHz (US)	Alien H Series/ Impinj M series	EPC/ISO 18000-6C	-20°C~+85°C	21*17*2.25mm	7.5	
IDA915XΦ16- TX16-930	866-868 MHz (EU) 902-928 MHz (US)	Alien H Series/ Impinj M series	EPC/ISO 18000-6C	-20°C~+85°C	Φ16*2mm	4.5	
IDA923XΦ10- YZ10-960	866-868 MHz (EU) 902-928 MHz (US)	Alien H Series/ Impinj M series	EPC/ISO 18000-6C	-20°C~+85°C	Φ10*1.5mm	1.8	

RFID Electronic Tag

Model	Frequency	Compatible Chip	Operating Principle	Operation Temperature	Size	Recognition Distance/Metal	Image
TAC915X3030H3NB _MT303003_915	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	30*30*3mm	15	
TAC915X2525H3N W_YZ25-937	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	25*25*2.75mm	11	
TAC915X2509H3N B_EP6066	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	25*9*3mm	8	
TAC915X2117H2N B_TX21	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	21*17*2.25mm	7	
TAC923X2107H3NN _MT21	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	21*6.5*3mm	7	
TAC915X1909H3NN _MT190903	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	19*9*3mm	6.5	
TAC915XΦ16H2NN _TX16_930	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	Φ16*2mm	5	

RFID Electronic Tag

Model	Frequency	Compatible Chip	Operating Principle	Operation Temperature	Size	Recognition Distance/Metal	Image
TAC915X1309H3NN _TX13	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	13*9*3mm	4.8	
TAC923X1207H3NN _MT120703	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	12*7*3mm	4	
TAC915XΦ10H2N B_YZ10-960	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	Φ10*1.5mm	1.8	
TAC923X1005H3NB _MT100503-930	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	10*5*3mm	4.5	
TAC923X1003H3NB _MT1033	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	10*2.5*2.5mm	2.3	
TAC923X1002H2NB _MT1022	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	10*1.8*1.8mm	2.1	
TAC923X1002H1NN _MT1021	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	10*1.8*1.5mm	2	

RFID Electronic Tag

Model	Frequency	Compatible Chip	Operating Principle	Operation Temperature	Size	Recognition Distance/Metal	Image
TAC915X0802R2NN_TX822	CN/US/EU	Impinj R6-P Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	8*2*2mm	1.7	
TAC923XΦ6H2NN_YZ06	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	Φ6*2.5mm	1.4	
TAC915X0602H2N_N_MT622-931	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State	6*2*2mm	0.8	
TAC915X0505H3N_B_MT050503-920	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State	5*5*3mm	2.8	
TAC923X0503H3NB_MT533	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	5*3*3mm	2.8	
TAC923X0503H2NB_MT522	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	5*2.5*2.5mm	1.5	
TAC915X0404H3NB_MT443H	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	4*4*3mm	1.3	

RFID Electronic Tag

Model	Frequency	Compatible Chip	Operating Principle	Operation Temperature	Size	Recognition Distance/Metal	Image
TAC923X0303H3NB_MT333	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	3*3*3mm	1.2	
TAC915X8554H3DN_MT8250	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Nonmetallic State	85.4*54*3.8mm	10	
TAC923X2525H4GN_MT252504	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	Φ37*6.2mm	7	
TAC915X2323H3DN_MT4631	CN/US/EU	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State/ Nonmetallic State	46*31*8mm	11	
TAP923X7028H3N_N_P702803	CN	ALIEN H3 Customizable	EPC/ISO 18000-6C	Nonmetallic State	70*28.5*3.3mm	4	
TAP923X4015H2N_N_P401516	CN	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State	41*14.5*1.6mm	3	
TAE923X5720H3F_N_IE12520	CN	ALIEN H3 Customizable	EPC/ISO 18000-6C	Metallic State	117.3*49.9*3.73mm	12	
TAE923X3838H3B_N_IE9620	CN	ALIEN H3 Customizable	EPC/ISO 18000-6C	Nonmetallic State	38*33.4*12.2mm	1	