BALSEAL

High-precision satellite navigation antenna (GNSS antenna) and wireless terminal antenna products

Basic product selection guide table

1. GNSS Measuring antenna

Basic model	Support satellite signal	Working frequency	Highest gain	Noise Figure	Connector	Size(mm)	Remarks
AT-705	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6; L-Band	1154MHz~1300MHz 1525MHz~1621MHz	5.5dBi	≤2.0	TNC-K	Φ152*67.9	Full frequency + L-Band
AT-901 AT-906	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6; L-Band	1154MHz~1300MHz 1525MHz~1621MHz	5.5dBi	≤2.0	TNC-K	Φ152*67.9	Full frequency + L-Band
AT-903	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6	1170MHz~1290MHz 1559MHz~1605MHz	5.0dBi	≤2.0	TNC-K	Φ152*67.9	Full frequency
AG-35	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6	1170MHz~1290MHz 1559MHz~1605MHz	5.0dBi	≤2.0	TNC-K	Φ152*67.5	Full frequency
AT-35H	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6;	1154MHz~1300MHz 1525MHz~1621MHz	5.5dBi	≤2.0	TNC-K	Φ152*67.5	Full frequency + L-Band

2. GNSS Helical antenna

Basic model	pport satellite signal	Working frequency	Highest gain	Noise Figure	Connect or	Size(mm)	Remarks
HA-103	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	2.5dBi	≤1.5	SMA-J	Φ18.5*50	Samsung Tri-band
HA-106		1616MHz-1626MHz	2.5dBi	~	SMA-J	Φ18.5*50	
HA-301	GPS:L1/L2; BDS:B1/B2/B3; GLONASS:L1/L2	1197MHz~1278MHz 1559MHz~1606MHz	2.0dBi	≤1.5	SMA-J	Φ27.5*55.6	Samsung Seven Band
HA-302	GPS:L1; BDS:B1;GLONASS:L1	1559MHz~1606MHz	2.5dBi	≤1.5	SMA-J	Φ27.5*55.6	
HA-603	GPS:L1/L2; BDS:B1/B2/B3; GLONASS:L1/L2	1197MHz~1278MHz 1559MHz~1606MHz	3.5dBi	≤1.5	SMA-J	Φ40*82.6	Samsung Seven Band
HA-607	GPS:L1/L2/L5; BDS:B1/B2/B3; GLONASS:L1/L2; GALILEO:E1/E2/E5a/E5b/E6; L-Band	1164MHz~1300MHz 1525MHz~1621MHz	3.5dBi	≤1.5	SMA-J	Φ40*82.6	Full frequency + L-Band
HA-305		1258MHz-1278MHz	2.5dBi	≤1.5	SMA-J	Φ27.5*55.6	
HA-309	GPS:L1; GLONASS:L1 BDS:B1/B3;	1258MHz-1278MHz 1559MHz~1606MHz	2.0dBi	≤1.5	SMA-J	Φ27.5*55.6	

HA-3011	GPS:L1/L5; BDS:B1;GLONASS:L1	1176.45±20.46MHz 1559MHz~1606MHz	2.0dBi	≤1.5	SMA-J	Φ27.5*55.6	
HA-201	GPS:L1/L2; BDS:B1/B2/B3; GLONASS:L1/L2	1197MHz~1278MHz 1559MHz~1606MHz	2.0dBi	≤1.5	SMA-J	Φ23.0*55.6	Samsung Seven Band
HA-2011	GPS:L1/L5; BDS:B1;GLONASS:L1	1176.45±20.46MHz 1559MHz~1606MHz	2.0dBi	≤1.5	SMA-J	Φ23.0*55.6	
HA-1767	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	1.5dBi	≤1.5	SMA-J	Φ17.0*67	Samsung Tri-band
HA-LS2302	L/S	1615.68±4.08MHz 2491.75±4.08MHz	2.0dBi	≤1.5	——	Φ23.0*100	
HA-LS1816	L/S	1615.68±4.08MHz 2491.75±4.08MHz	2.0dBi	≤1.5	——	Φ18.5*160	

3. GNSS Aviation vehicle antenna

Basic model	Support satellite signal	Working frequency	Highest gain	Noise Figure	size (mm) (Without connector)	Remarks
CA-203	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	4.5dBi	≤1.5	45*45*15	Screw fixation
CA-205	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	4.5dBi	≤2.5	45*45*15	Screw fixation
CA-303	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	4.5dBi	≤1.5	Φ45.5*18	Screw fixation
CA-305	GPS:L1/; BDS:B1;GLONASS:L1	1559MHz~1606MHz	4.5dBi	≤2.5	Φ45.5*18	Screw fixation
CA-6051	GPS：L1/L2/L5; BDS：B1/B2/B3; GLONASS： G1/G2/G3; Galileo： El/E5a/E5b L-Band	1164MHz~1286MHz , 1525MHz~1615MHz ;	4.0dBi	≤2.0	69.5*69.*27.0	Screw fixation
CA-6052	GPS：L1/L2/L5; BDS：B1/B2/B3; GLONASS： G1/G2/G3; Galileo： El/E5a/E5b L-Band	1164MHz~1286MHz , 1525MHz~1615MHz ;	4.0dBi	≤2.0	Φ67.5*31.0	Screw fixation
CA-6153	GPS：L1/L2/L5; BDS：B1/B2/B3; GLONASS： G1/G2/G3; Galileo： El/E5a/E5b L-Band	1164MHz~1286MHz , 1525MHz~1615MHz ;	4.0dBi	≤2.0	119.38*76.2*27.0	Screw fixation
CA-6155	GPS：L1/L2/L5; BDS：B1/B2/B3; GLONASS： G1/G2/G3; Galileo： El/E5a/E5b L-Band	1164MHz~1286MHz , 1525MHz~1615MHz ;	4.0dBi	≤2.0	Φ67.5*30.0	Screw fixation

Technical specifications of some products