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- Antenna and Solution Supplier

AntennaHome Product Brochure V24



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Products

Antenna

- All frequency range antennas from 300MHz to 6GHz ;
- Covered ISM band ,315M/433M/470/868M/915M/2.4G;WIFI/BT/ZIGBEE,Z-wave ; 2G-GSM/GPRS/3G--WCDMA/4G-LTE/5G; NB-IoT/Cat.1; LoRa; UWB ;RFID-915M/2.4G;GNSS/GPS/BD;
- Internal antenna ,chip antenna,spring antenna ,metal antenna ; pcb+cable ,fpc+cabel ;
- External antenna ,Rubber antenna ,Metal antenna,Magnetic antenna ,On-box antenna ,Directly antenna ;fiberglass antenna ;

RF Cable Assy

- All kinds cable assembly with connector and cable
- Connector : SMA/SMB/MCX/MMCX,BNC/TNC/N-TYPE,Fakra,U.FL/IPEX/IPX/,
- Cable : RG113/RG-174/RG178/RG316;

RF connector

- SMA/SMB/MCX/MMCX,BNC/TNC/N-TYPE/F-TYPE,Fakra,U.FL/IPEX/IPX/,

Our Advantage

【 R&D Dept. 】

- More than 15 years RF engineers .
- Excellence sales manager who followed end customers .
- Professional RF performance test lab with Network analyzer, Spectrum analyzer ;3D OTA chamber ;

【 Manufacture 】

- 800+ square meter workroom ;
- All produce program under ISO9001 system ;
- 100% tested before delivery ;

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Official Store

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Sub-1G, LoRa, 433M/868M/915M

						
产品/Product :	Spring DIP,433M antenna	H50 Rubber SMA-J ,433M Antenna	H50 Rubber SMA-JW ,433M Antenna	H108 Rubber SMA-J ,433M antenna	H200 Rubber SMA-J ,433M antenna	
料号/PN :	AH1G.301	AH1G.101	AH1G.103	AH1G.105	AH1G.107	
应用/Application :	LoRa433, ISM 433MHz system, LoRa/Remote/Transfer /Recciever					
Electrical Properties	Frequency:	433 MHz	433 MHz	433 MHz	433 MHz	433 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.0	≤2.5	≤2.5	≤2.5	≤2.5
	Gain:	1.0 dBi	1.5 dBi	1.5 dBi	3.5 dBi	5 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	/	SMA-J	SMA-JW	SMA-J	SMA-J
	Material&Color:	Copper	Copper/ABS	Copper/ABS	Copper/ABS	Copper/ABS
	Mounting:	DIP	SMA connector	SMA connector	SMA connector	SMA connector
	Size:	φ5.5×L36.0 mm	φ8×H50 mm	φ8×H50 mm	φ8×H108 mm	φ13×H200 mm
	Weight:	0.7 g/pc	6.0 g/pc	6.0 g/pc	6.0 g/pc	11 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C

Datasheet Download	AH1G.301	Spring DIP,433M antenna	http://docs.antennahome.com/ant/AH1G.301.pdf
	AH1G.101	H50 Rubber SMA-J ,433M Antenna	http://docs.antennahome.com/ant/AH1G.101.pdf
	AH1G.103	H50 Rubber SMA-JW ,433M Antenna	http://docs.antennahome.com/ant/AH1G.103.pdf
	AH1G.105	H108 Rubber SMA-J ,433M antenna	http://docs.antennahome.com/ant/AH1G.105.pdf
	AH1G.107	H200 Rubber SMA-J ,433M antenna	http://docs.antennahome.com/ant/AH1G.107.pdf

Sub-1G, LoRa, 433M/868M/915M

					
产品/Product :	Spring DIP, 868/915M, GSM900/1800M Antenna	LoRa 868/915MHz,DIP, Spring antenna	H50 Rubber SMA-J ,868M/915M,GSM900/1800M antenna	H50 Rubber SMA-JW,868M/915M,GSM900/1800M antenna	H108 Rubber SMA-J ,2G/3G Antenna
料号/PN :	AH1G.302	AH1G.312	AH1G.102	AH1G.104	AH3G.101
应用/Application :	LoRa 868/915M ,GSM/GPRS 900,Sub-1G ,ISM Transfer /Recciever ;				

Electrical Properties	Frequency:	868/915 MHz 900/1800MHz	868/915 MHz	868/915 MHz 900/1800MHz	868/915 MHz 900/1800MHz	824~2170 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.5	≤2.5	≤2.5	≤2.5	≤2.5
	Gain:	1.0 dBi	1.0 dBi	1.5 dBi	1.5 dBi	2.0 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	/	/	SMA-J	SMA-JW	SMA-J
	Material&Color:	Copper	Copper	Copper/ABS	Copper/ABS	Copper/ABS
	Mounting:	DIP	DIP	SMA connector	SMA connector	SMA connector
	Size:	∅5.0 xL24.0 mm	∅5.5 xL16.0 mm	∅8xH50 mm	∅8xH50 mm	∅8xH108 mm
	Weight:	0.7 g/pc	0.7 g/pc	6.0 g/pc	8.0 g/pc	6.0 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C

Datasheet Download	AH1G.302	Spring DIP, 868/915M, GSM900/1800M Antenna	http://docs.antennahome.com/ant/AH1G.302.pdf
	AH1G.312	LoRa 868/915MHz,DIP, Spring antenna	http://docs.antennahome.com/ant/AH1G.312.pdf
	AH1G.102	H50 Rubber SMA-J ,868M/915M,GSM900/1800M antenna	http://docs.antennahome.com/ant/AH1G.102.pdf
	AH1G.104	H50 Rubber SMA-JW,868M/915M,GSM900/1800M antenna	http://docs.antennahome.com/ant/AH1G.104.pdf
	AH3G.101	H108 Rubber SMA-J ,2G/3G Antenna	http://docs.antennahome.com/ant/AH3G.101.pdf






Sub-1G, LoRa, 433M/868M/915M

					
产品/Product :	PCB3608 L120 1.13cable IPX, 433M Antenna	H145 Metal Spring Magnetic SMA-J, 408MHz 433MHz Antenna	H63 set-box, 868Mz 915MHz 824~928MHz, SMA-J, LoRa Antenna	H175 Rubber Magnetic SMA-J ,315-915M	H480 FiberGlass , N- type ,433MHz Antenna
料号/PN :	AH1G.300T	AH1G.406	AH1G.110	AH1G.401	AH1G.501.L480
应用/Application :	Sub-1G, LoRa 433/868/915, ISM 433/868/915MHz system, Remote /Transfer /Recciever ;				

Electrical Properties	Frequency:	433/868/915 MHz	408.0MHz 433MHz	868/915 MHz	315~915MHz	433 MHz, 868/915 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.5	≤1.5	≤1.5	≤1.5	≤2.0
	Gain:	1.5 dBi	3.5~4.0 dBi	3.5 /dBi	3.5~4.0 dBi	4.0/6.0 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	PCB+ cable IPX	SMA-J & RG-174 Cable	SMA-J & RG-174 Cable	SMA-J & RG-174 Cable	N-J Type
	Material&Color:	PCB	Copper/Black	Copper/Black	Copper/Black	Copper / FiberGlass
	Mounting:	IPX connector	Magnetic	Magnetic	Magnetic	N-J Connector
	Size:	W7.5xL36xT1.0 mm	φ30xH145 mm	φ20xH63 mm	φ30xH175 mm	φ22xL480/550 mm
	Weight:	1.0 g/pc	40.5 g/pc	45.0 g/pc	40.5 g/pc	30.0 g/pcs
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C






Datasheet Download	AH1G.300T	PCB3608 L120 1.13cable IPX, 433M Antenna	http://docs.antennahome.com/ant/AH1G.300T.pdf
	AH1G.406	H145 Metal Spring Magnetic SMA-J, 408MHz 433MHz Antenna	http://docs.antennahome.com/ant/AH1G.406.pdf
	AH1G.110	H63 set-box, 868Mz 915MHz 824~928MHz, SMA-J, LoRa Antenna	http://docs.antennahome.com/ant/AH1G.110.pdf
	AH1G.401	H175 Rubber Magnetic SMA-J ,315-915M	http://docs.antennahome.com/ant/AH1G.401.pdf
	AH1G.501.L480	H480 FiberGlass , N-type ,433MHz Antenna	http://docs.antennahome.com/ant/AH1G.501.L480.pdf

2.4G or 5.8G, For ISM2.4G/WiFi/BT/BLE/Zigbee/Z-wave

						
产品/Product :		2.4GHz,SMD CHIP Antenna, WiFi/BLE/Zigbee, 5.5x2x1mm,	H50 Rubber SMA-J ,2.4G Antenna	H108 Rubber SMA-J ,2.4G Antenna	H108 Rubber SMA-J ,5.8G Antenna	H200 Rubber SMA-J ,2.4G antenna
料号/PN :		AH2G.352	AH2G.104	AH2G.101	AH2G.102	AH2G.107
应用/Application :	802.11 b/g/n, includes frequencies of 2.4GHz,Bluetooth, ZigBee, and Wi-Fi products; and 5.8GHz 11a;					
Electrical Properties	Frequency:	2400~2500 MHz	2400~2500 MHz	2400~2500 MHz	5150~5850 MHz	2400~2500 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.0	≤1.8	≤2.0	≤2.0	≤2.0
	Gain:	1.0 dBi	2.0 dBi	2.0 dBi	2.0 dBi	5 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	/	SMA-JW	SMA-J	SMA-J	SMA-J
	Material&Color:	Copper	Copper/ABS	Copper/ABS	Copper/ABS	Copper/ABS
	Mounting:	SMD	SMA connector	SMA connector	SMA connector	SMA connector
	Size:	L5.5xW2.0xT1.0 mm	φ8xH50 mm	φ8xH108 mm	φ8xH108 mm	φ13xH200 mm
	Weight:	1.0 g/pc	6.0 g/pc	6.0 g/pc	6.0 g/pc	11 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C






Datasheet Download	AH2G.352	2.4GHz,SMD CHIP Antenna, WiFi/BLE/Zigbee, 5.5x2x1mm,	http://docs.antennahome.com/ant/AH2G.352.pdf
	AH2G.104	H50 Rubber SMA-J ,2.4G Antenna	http://docs.antennahome.com/ant/AH2G.104.pdf
	AH2G.101	H108 Rubber SMA-J ,2.4G Antenna	http://docs.antennahome.com/ant/AH2G.101.pdf
	AH2G.102	H108 Rubber SMA-J ,5.8G Antenna	http://docs.antennahome.com/ant/AH2G.102.pdf
	AH2G.107	H200 Rubber SMA-J ,2.4G antenna	http://docs.antennahome.com/ant/AH2G.107.pdf

2.4G or 5.8G, For ISM2.4G/WiFi/BT/BLE/Zigbee/Z-wave

						
产品/Product :		PCB4008 L120 1.13cable IPX, 2.4/5.8G Antenna	FPC3710 L120 1.13cable IPX,2.4/5.8GHz Antenna	copper L120 1.13cable IPX, 2.4GHz Antenna	H175 Rubber Magnetic SMA-J ,2.4GHz Antenna	H180 FiberGlass, N- type , 2.4/5.8GHz Antenna
料号/PN :		AH2G.205T	AH2G.207	AH2G.303	AH2G.401	AH2G.501.L180
应用/Application :		802.11 b/g/n, includes frequencies of 2.4G,Bluetooth, ZigBee, and Wi-Fi products; and 5.8GHz 11a;				
Electrical Properties	Frequency:	2.4/5.8 GHz	2.4/5.8 GHz	2400~2500 MHz	2400~2500 MHz	2.4 / 5.8 GHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.0	≤1.5	≤2.0	≤2.0	≤2.0
	Gain:	1.5 dBi	2.5 /4.0 dBi	2.0 dBi	2.2 /dBi	4.0/6.0 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	PCB, 1.13 cable ,IPX	PCB, 1.13 cable ,IPX	copper, 1.13 cable ,IPX	SMA-J & RG-174 Cable	N-J Type
	Material&Color:	PCB	FPC	copper	Copper/ABS	Copper / FiberGlass
	Mounting:	IPX connector	IPX connector	IPX connector	Magnetic	N-J Connector
	Size:	W8.0xL40xT1.0 mm	W10xL37 mm	φ5.5 x L120 mm	φ40xH175 mm	φ22xL180 mm
	Weight:	1.2 g/pc	1.2 g/pc	40 g/pc	40 g/pc	30.0 g/pcs
Operate Temp:		-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C






Datasheet Download	AH2G.205T	PCB4008 L120 1.13cable IPX, 2.4/5.8G Antenna	http://docs.antennahome.com/ant/AH2G.205T.pdf
	AH2G.207	FPC3710 L120 1.13cable IPX,2.4/5.8GHz Antenna	http://docs.antennahome.com/ant/AH2G.207.pdf
	AH2G.303	copper L120 1.13cable IPX, 2.4GHz Antenna	http://docs.antennahome.com/ant/AH2G.303.pdf
	AH2G.401	H175 Rubber Magnetic SMA-J ,2.4GHz Antenna	http://docs.antennahome.com/ant/AH2G.401.pdf
	AH2G.501.L180	H180 FiberGlass, N-type , 2.4/5.8GHz Antenna	http://docs.antennahome.com/ant/AH2G.501.L180.pdf

2G/3G/4G LTE, NB-IoT/Cat.1&4, 5G

						
产品/Product :	Spring DIP, 868/915M, GSM900/1800M Antenna	3G/4G/5G, SMD, CHIP Antenna	PCB4007 L120 1.13cable IPX, GSM/GPRS Antenna	FPC6315 L120 1.13cable IPX, GSM/GPRS,3G/4G/5G Antenna	FPC6330 L120 1.13cable IPX, GSM/GPRS,3G/4G/5G Antenna	
料号/PN :	AH1G.302	AH5G.228	AH3G.201T	AH3G.205	AH3G.204	
应用/Application :	GSM/GPRS/WCDMA/,4G/5G,NB-IoT/Cat.1/LoRa 868/915M, includes frequencies of 824M~2700MHz wireless products					
Electrical Properties	Frequency:	868/915 MHz 900/1800MHz	698~2700 MHz	824~2170 MHz	824~2700 MHz	824~2700 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.5	≤2.5	≤2.0	≤2.0	≤2.5
	Gain:	1.0 dBi	1.8 / 3.5 dBi	1.5 dBi	1.5 dBi	1.5 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	/	/	PCB, 1.13 cable ,IPX	FPC, 1.13 cable ,IPX	FPC, 1.13 cable ,IPX
	Material&Color:	Copper	Copper	PCB	FPC	FPC
	Mounting:	DIP	SMD	IPX connector	IPX connector	IPX connector
	Size:	φ5.0 xL24.0 mm	L42xW10xT1.6 mm	W7.0xL120xT1.0 mm	W15.0 x L63.0 mm	W30.0 x L63.0 mm
	Weight:	0.7 g/pc	1.0 g/pc	1.2 g/pc	0.8 g/pc	1.6 g/pc
	Operate Temp:	(-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C




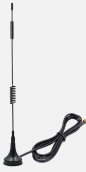

Datasheet Download	AH1G.302	Spring DIP, 868/915M, GSM900/1800M Antenna	http://docs.antennahome.com/ant/AH1G.302.pdf
	AH5G.228	3G/4G/5G, SMD, CHIP Antenna	http://docs.antennahome.com/ant/AH5G.228.pdf
	AH3G.201T	PCB4007 L120 1.13cable IPX, GSM/GPRS Antenna	http://docs.antennahome.com/ant/AH3G.201T.pdf
	AH3G.205	FPC6315 L120 1.13cable IPX, GSM/GPRS,3G/4G/5G Antenna	http://docs.antennahome.com/ant/AH3G.205.pdf
	AH3G.204	FPC6330 L120 1.13cable IPX, GSM/GPRS,3G/4G/5G Antenna	http://docs.antennahome.com/ant/AH3G.204.pdf

2G/3G/4G LTE, NB-IoT/Cat.1&4, 5G

						
产品/Product :		H50 Rubber SMA-J ,868M/915M,GSM900/1800M antenna	H50 Rubber SMA-JW ,868M/915M,GSM900/1800M antenna	H108 Rubber SMA-J ,2G/3G Antenna	HB180 Rubber SMA-J ,3G/4G/5G Antenna	H200 DAOFENG Rubber high gain SMA-J ,2G/3G/4G antenna
料号/PN :		AH1G.102	AH1G.104	AH3G.101	AH3G.102	AH3G.107
应用/Application :	GSM/GPRS/WCDMA/,4G/5G,NB-IoT/Cat.1/LoRa 868/915M, includes frequencies of 824M~2700MHz wireless products					
Electrical Properties	Frequency:	868/915 MHz 900/1800/2170MHz	868/915 MHz 900/1800/2170MHz	824~2170 MHz	824~2700 MHz	824~2690 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.5	≤2.5	≤2.5	≤2.5	<3.5
	Gain:	1.5 dBi	1.5 dBi	2.0 dBi	2.8 / 3.5 dBi	2.0 / 3.5 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	SMA-J	SMA-JW	SMA-J	SMA-J	SMA-J
	Material&Color:	Copper/ABS	Copper/ABS	Copper/ABS	Copper/ABS	Copper/ABS
	Mounting:	SMA connector	SMA connector	SMA connector	SMA connector	SMA connector
	Size:	∅8×H50 mm	∅8×H50 mm	∅8×H108 mm	∅13×HB180 mm	∅13×H200 mm
	Weight:	6.0 g/pc	6.0 g/pc	6.0 g/pc	16.0 g/pc	16.0 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C


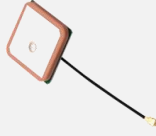

Datasheet Download	AH1G.102	H50 Rubber SMA-J ,868M/915M,GSM900/1800M antenna	http://docs.antennahome.com/ant/AH1G.102.pdf
	AH1G.104	H50 Rubber SMA-JW ,868M/915M,GSM900/1800M antenna	http://docs.antennahome.com/ant/AH1G.104.pdf
	AH3G.101	H108 Rubber SMA-J ,2G/3G Antenna	http://docs.antennahome.com/ant/AH3G.101.pdf
	AH3G.102	HB180 Rubber SMA-J ,3G/4G/5G Antenna	http://docs.antennahome.com/ant/AH3G.102.pdf
	AH3G.107	H200 DAOFENG Rubber high gain SMA-J ,2G/3G/4G antenna	http://docs.antennahome.com/ant/AH3G.107.pdf

2G/3G/4G LTE, NB-IoT/Cat.1&4, 5G

						
产品/Product :		2G/3G/4G,NB-IoT,CAT.1&4, H63 set-box Antenna	2G/3G/4G NB-IoT L=2000, Plaster Antenna	2G/3G/4G,NB-IoT,CAT.1&4, H200 MetalSpring Antenna	2G/3G/4G,NB-IoT,CAT.1&4, H220 MetalSpring Antenna	H250 FiberGlass, 2G/3G/4G,NB-IoT,CAT.1&4, Antenna
料号/PN :		AH3G.418	AH3G.403	AH3G.402	AH3G.405W	AH3G.501.L250
应用/Application :		GSM/GPRS/WCDMA/,4G/5G,NB-IoT/Cat.1/LoRa 868/915M, includes frequencies of 824M~2700MHz wireless products				
Electrical Properties	Frequency:	800~2690 MHz, 2G/3G/4G,NB-IoT,CAT.1&4	800~2690 MHz, 2G/3G/4G,NB-IoT,CAT.1&4	800~2690 MHz, 2G/3G/4G,NB-IoT,CAT.1&4	800~2690 MHz, 2G/3G/4G,NB-IoT,CAT.1&4	800~2170 MHz, 2G/3G/4G,NB-IoT,CAT.1&4
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
	Gain:	3.5 /dBi	3.5 /dBi	3.5 /dBi	5.0 /dBi	3.5/4.5 dBi
	Polarization:	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni	Vertical / Omni
Mechanical Properties	Conn&Cable:	SMA-J & RG-174 Cable	SMA-J & RG-174 Cable	SMA-J & RG-174 Cable	SMA-J & RG-174 Cable	N-J Type
	Material&Color:	Copper/Black	ABS/Black	Copper/Black	Copper/Black	Copper/FiberGlass
	Mounting:	Magnetic	Adhesive 3M	Magnetic	Magnetic	N-J Connector
	Size:	∅20×H63 mm	L116×W21.5 mm	∅30×H200 mm	∅30×H220 mm	∅22×L250 mm
	Weight:	45.0 g/pc	35.0 g/pc	45.0 g/pc	45.0 g/pc	35 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	(-40 ~ +85 °C


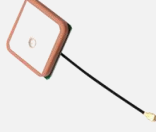

Datasheet Download	AH3G.418	2G/3G/4G,NB-IoT,CAT.1&4, H63 set-box Antenna	http://docs.antennahome.com/ant/AH3G.418.pdf
	AH3G.403	2G/3G/4G NB-IoT L=2000, Plaster Antenna	http://docs.antennahome.com/ant/AH3G.403.pdf
	AH3G.402	2G/3G/4G,NB-IoT,CAT.1&4, H200 MetalSpring Antenna	http://docs.antennahome.com/ant/AH3G.402.pdf
	AH3G.405W	2G/3G/4G,NB-IoT,CAT.1&4, H220 MetalSpring Antenna	http://docs.antennahome.com/ant/AH3G.405W.pdf
	AH3G.501.L250	H250 FiberGlass, 2G/3G/4G,NB-IoT,CAT.1&4, Antenna	http://docs.antennahome.com/ant/AH3G.501.L250.pdf

GNSS GPS/BD, Active/Passive

						
产品/Product :		Q25x25 x4 Internal GPS ,chip on board, SMD Antenna	Q25x25 Internal GPS , L120, GPS/BD Active Antenna	Q48x38 Box GPS SMA-J , L2000 ,GPS/BD Antenna		
料号/PN :		AHGG.241	AHGG.202	AHGG.101		
应用/Application :	GPS / BeiDou, 1575/1561MHz, GNSS Position and Location System					
Electrical Properties	Frequency:	GPS/1575.42 MHz、BD/1561.02MHz	GPS/1575.42 MHz、BD/1561.02MHz	GPS/1575.42 MHz、BD/1561.02MHz		
	Impedance:	50Ω	50Ω	50Ω		
	VSWR:	≤2.0	≤2.0	≤2.0		
	Gain:	3~5 dB	28±2dB @3~5V	28±2dB @3~5V		
	Polarization:	RHCP	RHCP	RHCP		
Mechanical Properties	Conn&Cable:	/	IPX ,RG113 L120	SMA-J ,RG-174 2M		
	Material&Color:	Ceramic	Ceramic / pcb	Copper / ABS		
	Mounting:	DIP	/	Magnetic		
	Size:	Q25x4.0mm(Q=18,15,12 Option)	Q25 x25 x6.5 mm	Q48x38x13 mm		
	Weight:	5 g/pc	12 g/pc	50 g/pc		
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C		






Datasheet Download	AHGG.241	Q25x25 x4 Internal GPS ,chip on board, SMD Antenna	http://docs.antennahome.com/ant/AHGG.24X.pdf
	AHGG.202	Q25x25 Internal GPS , L120, GPS/BD Active Antenna	http://docs.antennahome.com/ant/AHGG.202.pdf
	AHGG.101	Q48x38 Box GPS SMA-J , L2000 ,GPS/BD Antenna	http://docs.antennahome.com/ant/AHGG.101.pdf

GNSS GPS/GLONASS, Active/Passive

						
产品/Product :		Q25x25 x4 Internal GPS/GLONASS ,chip on board, SMD Antenna	Q25x25 Internal GPS , L120, GPS/GLONASS Active Antenna	Q48x38 Box GPS SMA-J, L2000, GPS/GLONASS Antenna		
料号/PN :		AHGG.2417	AHGG.232	AHGG.132		
应用/Application :	GPS / GLONASS , 1575/1602MHz, GNSS Position and Location System					
Electrical Properties	Frequency:	GPS/1575.42 MHz、GLONASS/1602MHz	GPS/1575.42 MHz、GLONASS/1602MHz	GPS/1575.42 MHz、GLONASS/1602MHz		
	Impedance:	50Ω	50Ω	50Ω		
	VSWR:	≤2.0	≤2.0	≤2.0		
	Gain:	3~5 dB	28±2dB @3~5V	28±2dB @3~5V		
	Polarization:	RHCP	RHCP	RHCP		
Mechanical Properties	Conn&Cable:	/	IPX ,RG113 L120	SMA-J ,RG-174 2M		
	Material&Color:	Ceramic	Ceramic / pcb	Copper / ABS		
	Mounting:	DIP	/	Magnetic		
	Size:	Q25x4.0mm(Q=18,15,12 Option)	Q25 x25 x6.5 mm	Q48x38x13 mm		
	Weight:	5 g/pc	12 g/pc	50 g/pc		
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C		





Datasheet Download	AHGG.2417	Q25x25 x4 Internal GPS/GLONASS ,chip on board, SMD Antenna	http://docs.antennahome.com/ant/AHGG.24X7.pdf
	AHGG.232	Q25x25 Internal GPS , L120, GPS/GLONASS Active Antenna	http://docs.antennahome.com/ant/AHGG.232.pdf
	AHGG.132	Q48x38 Box GPS SMA-J, L2000, GPS/GLONASS Antenna	http://docs.antennahome.com/ant/AHGG.132.pdf

RF Connector and Cable assembly, U.FL, SMA, MCX, Fakra

						
产品/Product :		SMA-K Q4,DIP Connector	SMA-K Bended Q4 ,DIP Connector	SMA-K Bended Q4, Thread L17, DIP connector	SMA-K T1.6,DIP Connector	U.FL, IPX Mounting G1 ,SMD RF connector
料号/PN :		AHCG.201	AHCG.202	AHCG.202B	AHCG.203	AHCG.204
应用/Application :	All RF transmit /receiver communication system ; DC~6GHz					
Electrical Properties	Frequency:	DC~6000 MHz	DC~6000 MHz	DC~6000 MHz	DC~6000 MHz	DC~6000 MHz
	Impedance:	50Ω	50Ω	50Ω	50Ω	50Ω
	VSWR:	≤1.3	≤1.3	≤1.3	≤1.3	≤1.3
	Gain/Lost:	0.25 dBi	0.25 dBi	0.25 dBi	0.25 dBi	0.25 dBi
	Polarization:	/	/	/	/	/
Mechanical Properties	Conn&Cable:	SMA-K	SMA-K	SMA-K	SMA-K	U.FL, IPX G1
	Material&Color:	Copper	Copper	Copper	Copper	Copper
	Mounting:	DIP	DIP	DIP	DIP	SMD
	Size:	Q6 x 13.5 mm	Q6 x 14.5 mm	Q6 x 23 mm	Q6 x 13.5 mm	Q2.6 x 1.25 mm
	Weight:	1.4 g/pc	2.8 g/pc	1.4 g/pc	1.4 g/pc	0.02 g/pc
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C

Datasheet Download	AHCG.201	SMA-K Q4,DIP Connector	http://docs.antennahome.com/ant/AHCG.201.pdf
	AHCG.202	SMA-K Bended Q4 ,DIP Connector	http://docs.antennahome.com/ant/AHCG.202.pdf
	AHCG.202B	SMA-K Bended Q4, Thread L17, DIP connector	http://docs.antennahome.com/ant/AHCG.202B.pdf
	AHCG.203	SMA-K T1.6,DIP Connector	http://docs.antennahome.com/ant/AHCG.203.pdf
	AHCG.204	U.FL, IPX Mounting G1 ,SMD RF connector	http://docs.antennahome.com/ant/AHCG.204.pdf

RF Connector and Cable assembly, U.FL, SMA, MCX, Fakra

						
产品/Product :		L120 1.13cable SMA-IPX,DIP	L100 1.13cable SMA-Tin, cable assy	L120 1.13cable SMA-IPX,WaterProof, DIP	L120 1.13cable SMA/B-IPX ,DIP	
料号/PN :		AHCG.101	AHCG.101.1	AHCG.106	AHCG.102	
应用/Application :	All RF transmit /receiver communication system ; DC~6GHz					
Electrical Properties	Frequency:	DC~6000 MHz	DC~6000 MHz	DC~6000 MHz	DC~6000 MHz	
	Impedance:	50Ω	50Ω	50Ω	50Ω	
	VSWR:	≤1.3	≤1.3	≤1.3	≤1.3	
	Gain/Lost:	0.5 dBi	0.5 dBi	0.5 dBi	0.6 dBi	
	Polarization:	/	/	/	/	
Mechanical Properties	Conn&Cable:	SMA-K / IPX	SMA-K / IPX	SMA-K / IPX	SMA-KB / IPX	
	Material&Color:	Copper / Black cable	Copper / Black cable	Copper / Black cable	Copper / Black cable	
	Mounting:	SMA connector	SMA connector	SMA connector	SMA connector	
	Size:	L=120 mm	L=120 mm	L=120 mm	L=120 mm	
	Weight:	3.3 g/pc	3.3 g/pc	4.0 g/pc	4.0 g/pc	
	Operate Temp:	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	-40 ~ +85 °C	

Datasheet Download	AHCG.101	L120 1.13cable SMA-IPX,DIP	http://docs.antennahome.com/ant/AHCG.101.pdf
	AHCG.101.1	L100 1.13cable SMA-Tin, cable assy	http://docs.antennahome.com/ant/AHCG.101.1.pdf
	AHCG.106	L120 1.13cable SMA-IPX,WaterProof, DIP	http://docs.antennahome.com/ant/AHCG.106.pdf
	AHCG.102	L120 1.13cable SMA/B-IPX ,DIP	http://docs.antennahome.com/ant/AHCG.102.pdf

天线的参数与测量/Antenna Parameter and Measure

Parameter of antenna.

Band: Work Frequency Range.

VSWR: <2.0 Normally,(Sn Return Loss)

GAIN: 0~2dBi classic Radiation:Omni or DirectionPassive or Active for GPS antenna,TV digital antenna.

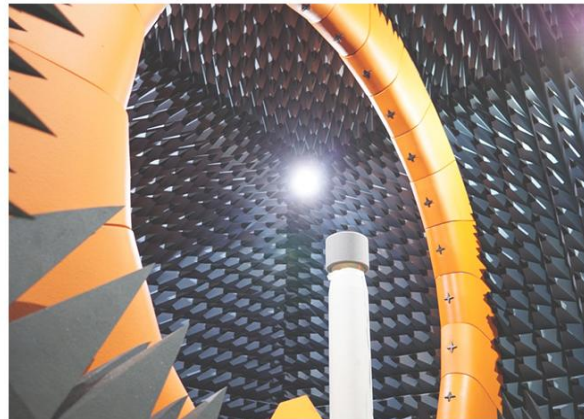
Measure of antenna.

S11 parameter,like VSWR\RL,need test by VNA equipment. -picture 1

Gain and Radiation pattern need test under 3D chamber. -picture 2

***Note:

usually Internal antenna,like PCB\FPC+cable,especial Chip SMD onboard antenna,NEED design and measure



如何选择天线/How To Choose a Antenna

Step 1# Confirm antenna mount OUTSIDE or INSIDE device.

Choose External antenna, like Rubber\Magnetic,Fiberglass, if outside.

Choose Internal antenna, like Chip\Spring\PCB FPC+Cable, if inside..

Step 2# Confirm the FREQUENCY or Protocol.

Like frequency 433MHz,2400-2480MHz.

or LoRa antenna use in EU, then we know the frequency is 868MHz.

or WiFi 5G antenna, then we know the frequency is 5.1-5.8GHz.

Step 3# Confirm Appearance,Size,Connector and Cable length.

Use right connector like SMA\MCX, when connect to device, and antenna cable length, appearance size;

Note: usually.bigger size antenna and better performance; longer cable and worse loss.

Step 4# Make sample for test in client device.

Make sure test the samples in client device,and check the communication dsitance and data rate.

Attached

1, 【Resell or Distributor】 Quickly update to your E-shop
<https://www.antennahome.com/new/Resell-distribute.html>

2, IoT Antenna Design Method and Steps -AntennaHome
https://www.antennahome.com/new/IoT_antenna_solution.html

3, Ti Antenna Guide _AntennaHome
https://www.antennahome.com/new/Antenna_guide.html

4, Antenna Matching and Smith Chart
https://www.antennahome.com/new/Matching_Smith.html

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2.4G/2.465.8G
NFC/RFID/13.56MHz
GNSS/GPS/BDS