

SUNNYWAY

CATALOGUE

Global IOT Antenna Supplier

PCB Antenna
FPC Antenna
Fiberglass Antenna
SMD Antenna
GNSS Antenna
Spring Antenna
External Antenna
Combination Antenna
RFID Antenna
NTN Antenna
Cable & Connectors

Table of Contents

PCB Antenna

Features: Integrated PCB 、 Hard material、 Easy installation
5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....04

FPC Antenna

Features: Good flexibility、 Easy installation
5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....07

Fiberglass Antenna

Features: High gain、 Suitable for complex environments
5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....16

SMD Antenna

Features: SMD process、 Low profile
5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....21

GNSS Antenna

Features: High-precision、 Multimode multi star
GPS/GLONASS/GALILEO/BEIDOU.....30

Spring Antenna

Features: Small size、 Easy installation、 Anti-aging
5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....44

Table of Contents

External Antenna

Features:High-performance、 Multi-band、 Easy installation

5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....43

Combination Antenna

Features:Customizable combination、 Easy installation

5G/4G/3G/2G//NB-IoT/CAT M1/ WiFi.....63

RFID Antenna

Features:High-performance、 Easy installation

13.56MHz, 433MHz, 860~960MHz.....82

NTN Antenna




Features: High-performance、 Easy installation

N255, N256 Band.....83

Cable &Connectors




Features:Customizable、 Low loss

BNC/TNC/SMA/SMB.....84

Product	SWP001	SWP003	SWP004
Product Pictures			
PN	SW19001IG97	SW19003IG97	SW19004IG97
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	112.5(L) x 16.2(W) x 0.8(H)	43.36(L) x 17.0(W) x 1.0(H)	50.7(L) x 9.0(W) x 0.6(H)
Cable length(mm)	101	101	101
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	5G/4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1	2.4G /5G WiFi
Frequency (MHz)	600~6000	824~960, 1710~2690	2400~2500, 5200~5800
VSWR	<3.5	<7.2, <3.0	<1.5, <1.6
Peak Gain (dBi)	-3.0~4.5	-2.0~0, 0.5~3.5	2.0~2.8, 1.5~4.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWP008	SWP009	SWP010
Product Pictures			
PN	SW24040IA97	SW24087IG97	SH24039IV98-1
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	RF 1	RF 1	RF 1
Dimensions (mm)	78.0(L) x 14.0(W) x 0.8(H)	40.0(L) x 15.0(W) x 1.6(H)	39.5(L) x 19.3(W) x 0.8(H)
Cable length(mm)	180	75	53
Operating temperature	- 20°C ~ + 65 °C	- 20°C ~ + 65 °C	- 20 °C ~ + 65 °C
Electrical Specifications			
Standards	4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1	2.4G&5G WiFi
Frequency (MHz)	617~960 , 1710~2170 , 2300~2690	698~960, 1710~2170, 2300~2700	2400~2500, 5150~5950
VSWR	<3.0 , <2.0 , <3.0	<6.0, <3.0, <2.0	< 2.0, < 2.0
Peak Gain (dBi)	-1.0~4.9 , 1.3~4.2 , -0.3~3.9	-4.0~-1.0, 0.2~4.0, 0.2~3.5	4.0~4.4, 5.0~6.2
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5




Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	MC-P43
Product Pictures	
PN	SW24140IV66
General Specifications	
Mounting type	Welding
Connector type	Welding
Dimensions (mm)	55.0(L) x 8.0(W) x 1.0(H)
Cable length(mm)	/
Operating temperature	- 40 °C ~ + 85 °C
Electrical Specifications	
Standards	ISM-433MHz
Frequency (MHz)	433
VSWR	1.18
Peak Gain (dBi)	-1.68
Impedance (Ohm)	50
Polarization	Linear
Max. Input Power (W)	5


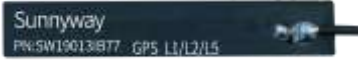

Notes:

- Cable and connector types can be customized
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Product	SWF001	SWF002	SWF003
Product Pictures			
PN	SW19006IB77	SW19007IB77	SW19008IB77
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	62.0(L) x 19.0(W) x 0.12(H)	87.17(L) x 20.0(W) x 0.12(H)	112.5(L) x 16.2(W) x 0.12(H)
Cable length(mm)	101	101	101
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1	5G/4G/3G/2G/NB-IoT/Cat-M1
Frequency (MHz)	824~960, 1710~2690	824~960, 1710~2690	698~6000
VSWR	<4.5, <2.8	<5.0, <3.0	<3.0
Peak Gain (dBi)	-3.5~0.5, 2.0~5.0	-2.0~1.0, -1.0~5.0	0~4.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5




Notes:

- Cable and connector types can be customized
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Product	SWF004	SWF005	SWF006
Product Pictures			
PN	SW19010IB77	SW19013IB77	SW20030IB77
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	45.4(L) x 15.6(W) x 0.12(H)	39.0(L) x 6.5(W) x 0.12(H)	50.7(L) x 9.0(W) x 0.12(H)
Cable length(mm)	252	220	101
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 80 °C
Electrical Specifications			
Standards	LoRa 470~510MHz	GPS L1+L2+L5/GLONASS /GALILEO/BEIDOU	2.4G /5G WiFi
Frequency (MHz)	470~510	1176, 1227, 1559, 1575, 1602	2400~2500, 5100~5900
VSWR	<5.0	1.97, 1.8, 1.76, 1.6, 1.47	<2.0, <4.0
Peak Gain (dBi)	-3.0~-2.0	2.0, 1.6, 2.8, 3.0, 3.5	0.5~2.0, 1.5~4.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF007	SWF008	SWF009
Product Pictures			
PN	SW20041IB77	SW20042IB77	SW20061IB77
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	70.0(L) x 20.0(W) x 0.12(H)	80.0(L) x 20.0(W) x 0.12(H)	52.0(L) x 14.0(W) x 0.12(H)
Cable length(mm)	101	101	70
Operating temperature	- 40 °C ~ + 80 °C	- 40 °C ~ + 80 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	4G/3G/2G/NB-IoT/Cat-M1	5G/4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1
Frequency (MHz)	698~960, 1710~2690	698~960, 1710~6000	698~960, 1710~2690
VSWR	<2.5, <2.6	<2.7, <2.8	< 6.0, < 4.0
Peak Gain (dBi)	-1.8~2.0, -0.5~4.2	0.5~2.1, -2.6~3.9	-1.5~1.0, 0~5.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Cable and connector types can be customized
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Product	SWF010	
Product Pictures		
PN	SW20272IB77	
General Specifications		
Mounting type	Adhesive	
Connector type	IPEX MHF1	
Dimensions (mm)	276.0(L) x 25.0(W) x 0.12(H)	
Cable length(mm)	100	
Operating temperature	- 40 °C ~ + 85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	5G/4G/3G/2G	5G/4G/3G/2G
Frequency (MHz)	600~960, 1400~2700, 3000~6000	600~960, 1400~2700, 3000~6000
VSWR	< 3.0, < 2.6, < 3.2	< 3.2, < 2.6, < 3.1
Peak Gain (dBi)	-0.4~4.1, 2.4~4.3, 0~4.2	-0.1~3.9, 2.1~5.0, -0.7~4.8
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5


Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF011		
Product Pictures			
PN	SW202731B77		
General Specifications			
Mounting type	Adhesive		
Connector type	IPEX MHF1		
Dimensions (mm)	289.5(L) x 25.0(W) x 0.12(H)		
Cable length(mm)	100		
Operating temperature	- 40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	5G/4G/3G/2G	GPS /GLONASS/GALILEO	5G/4G/3G/2G
Frequency (MHz)	600~960, 1400~2700, 3000~6000	1575, 1602	600~960, 1400~2700, 3000~6000
VSWR	< 3.0, < 2.5, < 2.5	1.2, 1.1	< 3.0, < 2.5, < 2.5
Peak Gain (dBi)	-0.5~3.5, 3.0~5.0, 2.0~5.0	3.0, 3.1	0~4.0, 2.5~4.5, 2.0~5.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF012	
Product Pictures		
PN	SW20274IB77	
General Specifications		
Mounting type	Adhesive	
Connector type	IPEX MHF1	
Dimensions (mm)	151.0(L) x 25.0(W) x 0.12(H)	
Cable length(mm)	100	
Operating temperature	- 40 °C ~ +85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	GPS/GLONASS/GALILEO	5G/4G/3G/2G
Frequency (MHz)	1575, 1602	600~960, 1400~2700, 3000~6000
VSWR	1.2, 1.1	< 2.9, < 2.5, < 2.6
Peak Gain (dBi)	3.0, 2.5	0.4~3.1, 2.3~5.4, 1.0~4.8
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5


Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF014	
Product Pictures		
PN	SZ22232IB77	
General Specifications		
Mounting type	Adhesive	
Connector type	IPEX -4	
Dimensions (mm)	59.36(L) x 24.15(W) x 0.12(H)	
Cable length(mm)	100	
Operating temperature	- 20 °C ~ +60 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	2.4G WiFi&5G WiFi&WiFi6/6E	2.4G WiFi&5G WiFi&WiFi6/6E
Frequency (MHz)	2400~2500, 5100~7125	2400~2500, 5100~7125
VSWR	< 3.2, < 3.3	< 3.5, < 3.5
Peak Gain (dBi)	-2.04~2.29, 4.87~6.56	1.08~1.53, 1.73~7.7
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5



Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF016
Product Pictures	
PN	SZ227271B75
General Specifications	
Mounting type	Adhesive
Connector type	/
Dimensions (mm)	Φ26.4 x 31.09
Cable length(mm)	/
Operating temperature	- 20 °C ~ + 65 °C
Electrical Specifications	
Standards	NFC
Frequency (MHz)	13.56MHz
Ls	12.53μH
Rs	13.59Ω
Impedance (Ohm)	50
Polarization	Linear

Notes:




- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency

Product	SWF022	OF868
Product Pictures		
PN	SW24008IB77	SW25091IB77
General Specifications		
Mounting type	Adhesive	Adhesive
Connector type	RF 1	RF 1
Dimensions (mm)	87.0(L) x 12.0(W) x 0.12(H)	39.0(L) x 15.0(W) x 0.12(H)
Cable length(mm)	100	100
Operating temperature	- 20 °C ~ + 65 °C	- 20 °C ~ + 65 °C
Electrical Specifications		
Standards	ISM-868MHz/ 915MHz	ISM-868MHz/ 915MHz
Frequency (MHz)	868, 915	868, 915
VSWR	2.15, 2.39	1.98, 1.83
Peak Gain (dBi)	3.62, 3.1	-0.78, 0.72
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized
- The antenna at least 10mm away from metal components or surfaces for best radiation efficiency




Fiberglass Antenna

Product	SWFG001	SWFG002	SWFG003
Product Pictures			
PN	SW20269EA63	SW20270EA63	SW20271EA63
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	N-J	N-J	SMA-M
Weight (g)	118.57	340	149
Dimensions (mm)	Φ20 x 330(H)	Φ20 x 1000(H)	Φ20.2 x 228.8(H)
Cable length(mm)	/	/	2800
Operating temperature	- 40 ~ + 55 °C	- 40 ~ + 55 °C	-40 ~ + 55°C
Electrical Specifications			
Standards	2.4G WiFi/BT/ 5G WiFi	ISM/LoRa 868MHz	4G&3G&2G/NB-IoT/Cat-M1
Frequency (MHz)	2400~2500, 5150~5850	868	698~960, 1710~2690
VSWR	< 2.0, < 4.5	1.3	< 3.7, < 2.3
Peak Gain (dBi)	4.0~5.8, 3.5~7.0	5.6	-6.0~2.5, 0.5~4.0
Impedance (Ohm)	50	50	50
Polarization	Vertical	Vertical	Vertical
Max. Input Power (W)	50	100	50

Notes:

- Gain characteristics and connectors can be customized



Fiberglass Antenna

Product	SWFG004	SWFG005	SWFG006
Product Pictures			
PN	SW19051EB63	SW20049IA63	SW20048IA63
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	N-J	N-K	N-K
Weight (g)	/	113	186
Dimensions (mm)	Φ22.5 x 500(H)	Φ16 x 240(H)	Φ16 x 500(H)
Operating temperature	- 40 °C ~ + 85 °C	-40 ~ + 60 °C	-40 ~ + 60 °C
Electrical Specifications			
Standards	ISM/LoRa 915MHz	ISM-868MHz/ 915MHz	ISM-868MHz/ 915MHz
Frequency (MHz)	915	860~870, 868, 900~930, 915	860~870, 868, 900~930, 915
VSWR	1.74	< 1.7, 1.56, < 1.5, 1.14	< 1.5, 1.25, < 1.5, 1.34
Peak Gain (dBi)	2.0	2.4~2.7, 2.4, 2.2~3.0, 3.1	4.3~5.0, 4.4, 4.2~5.0, 4.3
Impedance (Ohm)	50	50	50
Polarization	Linear	Vertical	Vertical
Max. Input Power (W)	25	50	50

Notes:

- Gain characteristics and connectors can be customized




Fiberglass Antenna

Product	SWFG007	SWFG008
Product Pictures		
PN	SZ21310EW56	SZ22149WA63
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	N-J	N-J
Weight (g)	105	/
Dimensions (mm)	Φ20 x 205(H)	Φ20 x 300(H)
Operating temperature	-40 ~ + 55 °C	- 40 °C ~ + 85 °C
Electrical Specifications		
Standards	C-V2X	LoRa 915MHz
Frequency (MHz)	5850~5925	915
VSWR	< 2.0	1.4
Peak Gain (dBi)	4.5~7.5	2.5
Impedance (Ohm)	50	50
Polarization	Vertical	Linear
Max. Input Power (W)	50	25

Notes:

- Gain characteristics and connectors can be customized



Fiberglass Antenna

Product	SWFG009	SWFG011	SWFG012
Product Pictures			
PN	SZ22426WA63	SZ23062WB52	SZ22650WA63
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	N-J	SMA-M	SMA-M
Weight (g)	/	/	/
Dimensions (mm)	Φ20 x 500(H)	Φ11.5 x 222.5(H)	Φ20 x 250(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	LoRa 915MHz	5G&4G&3G&2G/NB-IoT/Cat-M1	5G&4G&3G&2G/NB-IoT/Cat-M1
Frequency (MHz)	915	600 ~ 6000	600 ~ 5000
VSWR	1.24	< 9.0	< 5.0
Peak Gain (dBi)	4.0	4.71(MAX)	4.97(MAX)
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	20	50

Notes:



- Gain characteristics and connectors can be customized

Fiberglass Antenna

Product	SWFG013	SWFG014
Product Pictures		
PN	SZ23449WB52	SW23089WA63
General Specifications		
Mounting type	Connector Mount	Screw Mount
Connector type	N-TYPE	N-K
Weight (g)	/	/
Dimensions (mm)	Φ20 x 200(H)	Φ63 x 800(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications		
Standards	1880~1900MHz	3500~3700MHz
Frequency (MHz)	1880~1900	3500~3700
VSWR	< 1.5	1.9 / 1.7
Peak Gain (dBi)	2.1(MAX)	11.5 / 11.4
Impedance (Ohm)	50	50
Polarization	Linear	Dual Linear
Max. Input Power (W)	20	20



Notes:

- Gain characteristics and connectors can be customized

Product	SWD002	SWD003
Product Pictures		
PN	SW20008IB66	SW20009IB66
General Specifications		
Mounting type	SMD	SMD
Dimensions (mm)	35.0(L) x 8.5(W) x 3.0(H)	40.0(L) x 7.0(W) x 3.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications		
Standards	4G&3G&2G/NB-IoT/Cat-M1	4G&3G&2G/NB-IoT/Cat-M1/GNSS
Frequency (MHz)	698~960, 1710~2690	698~960, 1420~2700, 1559, 1575.42, 1602
VSWR	< 3.9, <3.5	< 5.0, < 5.0, 2.3, 2.2, 2.1
Peak Gain (dBi)	-3.1~0.7, -3.3~3.0	-0.5~2.3, 0.9~5.5, 4.2, 3.8, 3.4
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5




Notes:

- Please refer to Sunnyway's datasheet

Product	SWD006	SWD008	SWD013
Product Pictures			
PN	SW20012IB66	SW20014IB66-L SW20014IB66-R	SW20034IB66
General Specifications			
Mounting type	SMD	SMD	SMD
Dimensions (mm)	7.0(L) x 5.8(W) x 0.4(H)	20.0(L) x 11.0(W) x 1.6(H)	35.0(L) x 8.5(W) x 3.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO /BEIDOU	NB-B20, NB-B5/B8	4G&3G&2G/NB-IoT/Cat-M1/GNSS
Frequency (MHz)	1559~1609	791~862, 824~960	698~960, 1559, 1575.42, 1602, 1710~2690
VSWR	< 1.4	< 2.9, <2.6	< 4.5, 2.2, 2.0, 1.7, < 3.4
Peak Gain (dBi)	3.4~4.4	0.5~2.7, 0.5~2.0	-2.9~1.5, 3.5, 3.2, 2.7, -3.7~2.6
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Please refer to Sunnyway's datasheet

Product	SWD014	SWD015	SWD016
Product Pictures			
PN	SH19291IB54	SZ19275IA93	SW20278IA93
General Specifications			
Mounting type	SMD	SMD	SMD
Dimensions (mm)	3.2(L) x 1.6(W) x 0.6(H)	3.2(L) x 1.6(W) x 0.6(H)	18.0(L) x 18.0(W) x 4.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	2.4G WiFi/BT	GPS/GALILEO	GPS/GLONASS/GALILEO
Frequency (MHz)	2400~2500	1575	1575.42, 1602
VSWR	< 2.1	1.1	1.09, 1.46
Peak Gain (dBi)	2.5~3.5	3.0	2.7, 2.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP




Notes:

- Please refer to Sunnyway's datasheet

Product	SWD017		
Product Pictures			
PN	SW20282IB66-A / SW20282IB66-B / SW20282IB66-C		
General Specifications			
Mounting type	SMD		
Dimensions (mm)	19.5(L) x 7.6(W) x 2.0(H)		
Operating temperature	- 40 °C ~ + 85 °C		
Electrical Specifications	SW20282IB66-A	SW20282IB66-B	SW20282IB66-C
Standards	n41/n77/n78/n79	n41/n77/n78/n79	n41/n77/n78/n79
Frequency (MHz)	2490~2700, 3300~4200, 4400~5000	2490~2700, 3300~4200, 4400~5000	2490~2700, 3300~4200, 4400~5000
VSWR	<2.5, <2.0, <2.0	<3.0, <2.0, <2.0	<2.0, <2.0, <2.0
Peak Gain (dBi)	2.4~2.9, 2.8~4.3, 4.5~6.3	1.5~1.6, 0.5~4.4, 3.5~5.5	1.7~2.4, 2.7~3.8, 4.0~6.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Please refer to Sunnyway's datasheet

Product	SWD019	SWD021	SWD025
Product Pictures			
PN	SW20005IB66	SW20301IB66	SH21280IA70
General Specifications			
Mounting type	SMD	SMD	SMD
Dimensions (mm)	26.0(L) x 7.65(W) x 3.0(H)	42.2(L) x 10.3(W) x 1.6(H)	13.75(L) x 5.23(W) x 3.53(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS L1+L5 /GLONASS/GALILEO	5G / 4G / 3G/ 2G	2.4G WiFi
Frequency (MHz)	1176.45, 1575.42, 1602.56	610~960, 1400~2700, 3000~6000	2400, 2450, 2500
VSWR	1.29, 1.19, 1.18	< 3.0, < 5.5, < 4.0	1.7, 1.5, 1.7
Peak Gain (dBi)	2.7, 2.5, 2.8	-1.5~2.7, 0~7.5, 0.2~6.0	0.5, 0.8, 0.9
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5


Notes:

- Please refer to Sunnyway's datasheet

Product	SWD028	
Product Pictures		
PN	SW23082IB66	
General Specifications		
Mounting type	SMD	
Dimensions (mm)	25.2(L) x 5.1(W) x 0.8(H)	
Operating temperature	- 40 °C ~ + 85 °C	
Electrical Specifications	SWD028-A	SWD028-B
Frequency (MHz)	169	
VSWR	1.13	1.19
Return Loss	-24.24	-21.01
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5



Notes:

- Please refer to Sunnyway's datasheet

Product	SWD032
Product Pictures	
PN	SW240331B66
General Specifications	
Mounting type	SMD
Dimensions (mm)	8.0(L) x 6.0(W) x 1.0(H)
Operating temperature	- 40 °C ~ + 85 °C
Electrical Specifications	
Standards	UWB 3.0 ~ 8.0 GHz
Frequency (MHz)	3000 ~ 8000
VSWR	< 4.0
Peak Gain (dBi)	1.8 ~ 6.0
Impedance (Ohm)	50
Polarization	Linear
Max. Input Power (W)	5



Notes:

- Please refer to Sunnyway's datasheet

Product	SWD034	SWD035
Product Pictures		
PN	SW24018IB66	SW24165IB66
General Specifications		
Mounting type	SMD	SMD
Dimensions (mm)	7.0(L) x 2.0(W) x 2.0(H)	40.0(L) x 8.0(W) x 3.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications		
Frequency (MHz)	850~880, 902~928	698~960, 1710~2170, 2300~2690, 1559, 1575, 1602
VSWR	< 2.0, < 2.0	< 3.0, < 2.0, < 2.0, 1.3, 1.3, 1.2
Peak Gain (dBi)	2.39~3.44, 3.65~4.17	0.3~2.8, 1.4~3.9, 1.9~4.5, 3.4, 3.9, 3.2
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5




Notes:

- Please refer to Sunnyway's datasheet

Product	SWD036	SWD037
Product Pictures		
PN	SW25059IB54	SW25062IB16
General Specifications		
Mounting type	SMD	SMD
Dimensions (mm)	3.2(L) x 1.6(W) x 1.2(H)	25.0(L) x 7.0(W) x 3.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications		
Standards	2.4G&5G WiFi	5G/4G/3G/2G/NB-IoT/CAT M1
Frequency (MHz)	2400~2500, 5100~5900	698~960, 1710~2170, 3300~4200
VSWR	< 2.0, < 3.5	< 6.0, < 3.5, < 3.5
Peak Gain (dBi)	0.5~1.4, 1.6~4.0	-2.0~2.0, 1.0~4.0, -0.3~1.4
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5




Notes:

- Please refer to Sunnyway's datasheet

Product	SWG001	SWG002	SWG003
Product Pictures			
PN	SW19017IB93	SW19018IB93	SW19019IB93
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	15.0(L) x 15.0(W) x 6.9(H)	18.0(L) x 18.0(W) x 6.7(H)	25.0(L) x 25.0(W) x 5.1(H)
Cable length(mm)	17.6	48	43
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU
Frequency (MHz)	1575, 1602	1559, 1575, 1602	1559, 1575, 1602
VSWR	1.13, 1.82	1.8, 2.98, 1.11	2.03, 2.58, 1.13
Ceramic Gain (dBi)	2.13, 2.07	2.04, 2.14, 3.02	2.13, 2.11, 2.91
Active Gain (dB)	25 @ 3.6V	25 @ 3.6V	25 @ 3.6V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP




Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG004	SWG005	SWG006
Product Pictures			
PN	SW19020IB93	SW19021IB93	SW19029IB93
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX MHF1	IPEX MHF1	IPEX MHF1
Dimensions (mm)	25.0(L) x 25.0(W) x 6.5(H)	35.0(L) x 35.0(W) x 7.1(H)	25.0(L) x 25.0(W) x 6.5(H)
Cable length(mm)	43	100	43
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU
Frequency (MHz)	1559, 1575, 1602	1559, 1575, 1602	1559, 1575, 1602
VSWR	2.15, 2.48, 1.16	1.74, 2.97, 1.04	2.15, 2.48, 1.16
Ceramic Gain (dBi)	2.23, 2.27, 2.84	2.33, 2.24, 2.98	2.23, 2.27, 2.84
Active Gain (dB)	20 @ 3.6V	25 @ 3.6V	25 @ 3.6V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP



Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG007	SWG008	SWG009
Product Pictures			
PN	SW19055EB93	SW19056IB93	SW19057IB93
General Specifications			
Mounting type	Magnetic	Adhesive	Adhesive
Connector type	SMA-M	Welding	Welding
Dimensions (mm)	38.3(L) x 45.54(W) x 15.2(H)	18.0(L) x 18.0(W) x 4.0(H) 15.0(L) x 15.0(W) x 2.0(H)	10.0(L) x 1.00(W) x 4.0(H)
Cable length(mm)	3000(RG174)	/	/
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS L1+L5/GLONASS /GALILEO/BEIDOU B1C+B2a	GPS L1+L5/GLONASS /GALILEO/BEIDOU B1C+B2a	GPS/GLONASS/GALILEO /BEIDOU
Frequency (MHz)	1176, 1575, 1602	1176, 1575, 1602	1575, 1602
VSWR	1.75, 1.47, 1.31	1.84, 1.8, 1.46	1.46, 1.08
Ceramic Gain (dBi)	2.13 -0.23 0.21	1.44, -3.0, -0.41	-4.71, -2.46
Active Gain (dB)	30@1176, 35@1575, 34@1602	/	/
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP

Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG010	SWG011	SWG012
Product Pictures			
PN	SW19062EB93	SW19075IB93	SW20001IB93
General Specifications			
Mounting type	Magnetic + Adhesive	Adhesive	Adhesive
Connector type	FAKRA	IPEX MHF1	IPEX MHF1
Dimensions (mm)	50.9(L) x 38.6(W) x 18(H)	12.0(L) x 12.0(W) x 6.4(H)	18.0(L) x 18.0(W) x 4.0(H) 25.0(L) x 25.0(W) x 4.0(H)
Cable length(mm)	5000	150	41
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU	GPS L1+L5/GALILEO /BEIDOU B1I+B1C+B2a
Frequency (MHz)	1559, 1575, 1602	1575, 1609	1176, 1561, 1575
VSWR	2.15, 2.48, 1.16	1.23, 1.34	1.41, 1.24, 1.31
Ceramic Gain (dBi)	2.23, 2.27, 2.84	2.04, 2.23	2.23, 1.56, 1.74
Active Gain (dB)	25 @ 3.6V	25 @ 3.6V	30 @ 3.6V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP




Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG013	SWG014	SWG016
Product Pictures			
PN	SW20020IB93	SW20024IB93	SW20062IB93
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	Welding	Welding	Welding
Dimensions (mm)	25.0(L) x 25.0(W) x 4.0(H) 18.0(L) x 18.0(W) x 2.0(H)	18.0(L) x 18.0(W) x 4.0(H)	60.0(L) x 60.0(W) x 5.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS L1+L5/GALILEO /BEIDOU B1C+B2a	GPS/GLONASS/GALILEO /BEIDOU	ISM/LoRa 868MHz
Frequency (MHz)	1176.45, 1575.42	1559, 1575, 1602	868MHz
VSWR	1.75, 1.47	1.8, 2.98, 1.11	1.12
Ceramic Gain (dBi)	2.13, -0.23	2.04, 2.14, 3.02	2.2
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	Linear


Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG017	SWG018	SWG019
Product Pictures			
PN	SW20264IB93	SW20265IB93	SW20266IB93
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	Welding	Welding	Welding
Dimensions (mm)	25.0(L) x 25.0(W) x 4.0(H)	25.0(L) x 25.0(W) x 4.0(H)	35.0(L) x 35.0(W) x 3.0(H)
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU	GPS/GLONASS/GALILEO /BEIDOU
Frequency (MHz)	1575.42, 1602, 1608	1561, 1575.42, 1602	1561, 1575.42, 1602
VSWR	1.3, 1.3, 1.3	1.8, 1.9, 1.5	2.3, 2.8, 2.7
Ceramic Gain (dBi)	5.2, 4.3, 4.0	4.8, 5.0, 4.7	4.5, 4.7, 4.4
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP




Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG021	SWG022	SWG023
Product Pictures			
PN	SW20292IA93	SW21013IB93	SW21019IB93
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	Welding	IPEX MHF1	PEX MHF1
Dimensions (mm)	18.0(L) x 18.0(W) x 2.0(H)	25.0(L) x 25.0(W) x 8.2(H)	25.0(L) x 25.0(W) x 11.15(H)
Cable length(mm)	/	100	41
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS/GLONASS/GALILEO/BEIDOU	GPS L1+L5/GALILEO/BEIDOU B1C+B2a	GPS L1+L2/GLONASS /GALILEO/BEIDOU
Frequency (MHz)	1575.42, 1602	1176.45, 1575.42	1227, 1246, 1575, 1602
VSWR	1.1, 1.2	1.75, 1.47	1.3, 1.3, 1.4, 1.4
Ceramic Gain (dBi)	2.5, 3.1	2.13, -0.23	-1.79, -0.93, -0.31, -1.65
Active Gain (dB)	/	/	28±1@ 3.6V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP


Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG024	SWG026	SWG028
Product Pictures			
PN	SW21031IA93	SZ21387WB56	SZ21504IA93
General Specifications			
Mounting type	Adhesive	Screw Mount	Adhesive
Connector type	RF-1 generation	SMA-M	SMA-M
Dimensions (mm)	70.6(L) x 43.59(W) x 4.7(H)	81.0(L) x 60.0(W) x 15.0(H)	37.0(L) x 37.0(W) x 13.5(H)
Cable length(mm)	64/54	410	3000
Operating temperature	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C	- 40 °C ~ + 85 °C
Electrical Specifications			
Standards	GPS L1+L5/GALILEO /BEIDOU B1C+B2a	GPS/GLONASS/GALILEO /BEIDOU	GPS L1+L5/GLONASS/GALILEO/ BEIDOU B1I+B1C+B2a
Frequency (MHz)	1176, 1575	1559, 1575, 1602	1175, 1561, 1575, 1602
VSWR	/	2.15, 2.48, 1.16	/
Ceramic Gain (dBi)	3.77, 3.73	2.23, 2.27, 2.84	3.75, 2.7, 3.65, 2.3
Active Gain (dB)	/	25 @ 3.6V	28@3.3V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP




Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG042
Product Pictures	
PN	SH22132WA56
General Specifications	
Mounting type	Base Sucker
Connector type	TNC
Dimensions (mm)	Φ150.8 x 67.84(H)
Waterproof	IP65
Operating temperature	- 40 °C ~ + 85 °C
Electrical Specifications	
Standards	GPS L1/L2/L5 + BDS B1/B2/B3/B1C/B2a + GLONASS G1/G2/G3 + GALILEO E1/E5a/E5b/E6
Frequency (MHz)	1164~1300MHz, 1559~1610MHz
VSWR	≤1.5, ≤1.5
Active Gain (dB)	35±2, 35±2
Impedance (Ohm)	50
Polarization	RHCP




Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG045	SWG048	SWG055
Product Pictures			
PN	SZ22522IA93	SW24034IA54	SZ24213WB52
General Specifications			
Mounting type	Adhesive	Adhesive	Magnetic + Adhesive
Connector type	Welding	Welding	SMA-M
Dimensions (mm)	35.0(L) x 35.0(W) x 4.0(H) 25.0(L) x 25.0(W) x 4.0(H)	12.0(L) x 12.0(W) x 4.0(H)	60.0(L) x 60.0(W) x 24.8(H)
Cable length(mm)	/	/	1500
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	GPS L1+L2/GALILEO/BEIDOU	GPS L1	GPS L1+L5/GLONASS/GALILEO /BEIDOU B1I+B1C+B2a
Frequency (MHz)	1227, 1575	1575	1176.45 1561 1575.42
VSWR	1.34, 1.13	1.41	/
Ceramic Gain (dBi)	3.31, 5.28	1.98	3.04, 3.62, 4.56
Active Gain (dB)	/	/	18@3.3V
Impedance (Ohm)	50	50	50
Polarization	RHCP	RHCP	RHCP

Notes:




- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment

Product	SWG057	SWG058	SWI001
Product Pictures			
PN	SW25051IA93	SW25060IA93	SW25014IA54
General Specifications			
Mounting type	Adhesive	Adhesive	Adhesive
Connector type	IPEX 1	IPEX 1	Welding
Dimensions (mm)	18.0(L) x 18.0(W) x 6.8(H)	20.0(L) x 6.0(W) x 6.5(H)	25.0(L) x 25.0(W) x 4.0(H)
Cable length(mm)	49	50	/
Operating temperature	40 °C ~ +85 °C	40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	GPS L1	GPS L1	Iridium
Frequency (MHz)	1575.42	1575.42	1616~1627 (Center Frequency:1621MHz)
VSWR	1.07	1.99	1.09
Ceramic Gain (dBi)	1.01	-0.6	4.79
Active Gain (dB)	/	18@3.3V	/
Impedance (Ohm)	50	50	50
Polarization	RHCP	Linear	RHCP

Notes:

- Cable and connector types can be customized
- The antenna can be specially tuned for customer-specific device environment




Spring Antenna

Product	SWS001	SWS002	SWS003
Product Pictures			
PN	SW19011IA67	SW21020IA67	SW19030IA67
General Specifications			
Mounting type	Welding	Welding	Welding
Dimensions (mm)	Φ5.7 x 34.01(H)	Φ5.0 x 18.21(H)	Φ5.8 x 29.19(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	LoRa 470~510MHz	2.4G WiFi /BT	ISM-868MHz
Frequency (MHz)	470~510	2400~2500	868
VSWR	<3.0	< 2.0	1.18
Peak Gain (dBi)	0~1.5	4.0~4.6	2.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	25	25

Notes:

- The antenna can be tuned for customer-specific device environment




Spring Antenna

Product	SWS004	SWS005	SWS008
Product Pictures			
PN	SW20022IA67	SZ22682IA100	SW25029IA67
General Specifications			
Mounting type	Welding	/	Welding
Dimensions (mm)	Φ5.8 x 27.78(H)	31.0(L) x 31.0(W) x 2.0(H)	Φ5.5 x 42.4(H)
Operating temperature	-40 °C ~ +85 °C	/	- 20 °C ~ + 65 °C
Electrical Specifications			
Standards	NB-IoT B8	RFID	ISM-433MHz
Frequency (MHz)	880~960	125KHz	433
Inductance	/	490μH±5%	/
VSWR	< 2.0	/	1.9
Peak Gain (dBi)	0.8~3.5	/	2.29
Impedance (Ohm)	50	/	50
Polarization	Linear	/	Linear
Max. Input Power (W)	25	/	5

Notes:

- The antenna can be tuned for customer-specific device environment




External Antenna

Product	SWE001	SWE002	SWE003
Product Pictures			
PN	SW19031EB78	SW19032EB56	SW19033EB78
General Specifications			
Mounting type	Magnetic Mount	Magnetic Mount	Magnetic Mount
Connector type	SMA-M	SMA-M	SMA-M
Cable length(mm)	1000(RG174)	2000(RG174)	/
Dimensions (mm)	Φ30 x 308(H)	Φ46.5 x 185(H)	Φ30 x 128(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	3G/2G/NB-IoT	4G/3G/2G/NB-IoT/Cat-M1	LoRa 470~510MHz
Frequency (MHz)	824~960, 1710~2170	824~960, 1710~2690	470~510
VSWR	< 2.0, < 2.1	< 2.5, < 3.0	< 2.2
Peak Gain (dBi)	-4.0~0, -6.0~-1.0	-0.5~1.5, -2.5~-0.5	-1.5~-0.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	5	25

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE004	SWE005	SWE006
Product Pictures			
PN	SW19034EB56	SW19035EB56	SW19036EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ10 x 109(H)	Φ10 x 109(H)	Φ10 x 109(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	ISM-433MHz	LoRa 470~510MHz	ISM-868MHz
Frequency (MHz)	433	470~510	868
VSWR	1.28	<3.0	1.17
Peak Gain (dBi)	-1.3	-1.0~1.5	1.51
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE008	SWE009	SWE010
Product Pictures			
PN	SW19038EB56	SW19039EB56	RU001WB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ10 x 109(H)	Φ10 x 109(H)	16.2 x 190(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	2.4G WiFi/BT	3300~5000MHz	4G/3G/2G/NB-IoT/Cat-M1
Frequency (MHz)	2400~2500	3300~5000	698~960, 1710~2690
VSWR	<2.0	<4.0	<3.4, <3.2
Peak Gain (dBi)	3.0~4.5	-1.0~4.5	-0.5~2.0, -1.0~2.0
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE011	SWE012	SWE013
Product Pictures			
PN	SW19041EB78	SW19042EB78	SW19043EB56
General Specifications			
Mounting type	Magnetic Mount	Magnetic Mount	Adhesive Mount
Connector type	SMA-M	SMA-M	SMA-J
Cable length(mm)	3000(RG174)	1000(RG174)	3000(RG174)
Dimensions (mm)	Φ30 x 154(H)	Φ30 x 223(H)	116.0(L) x 22.0(W) x 5.3(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	ISM-433MHz	WiFi/BT	4G/3G/2G/NB-IoT/Cat-M1
Frequency (MHz)	433	2400~2500	824~960, 1710~2690
VSWR	1.44	< 5.0	< 2.5, < 2.5
Peak Gain (dBi)	0.23	1.0~2.0	-1.5~0.5, -5.0~-0.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	25	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE014	SWE015	SWE016
Product Pictures			
PN	SZ19175WB56	SW19045EB56	SW19046EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ13 x 195(H)	Φ8.5 x 47.3(H)	Φ8.5 x 47.3(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	4G/3G/2G/NB-IoT/Cat-M1	ISM-433MHz	LoRa 470~510MHz
Frequency (MHz)	824~960, 1710~2690	433	470~510
VSWR	<3.8, <3.5	1.39	<2.48
Peak Gain (dBi)	-0.1~4.0, -1.0~4.5	-0.55	-0.7~1.39
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	25	25

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE017	SWE019	SWE020
Product Pictures			
PN	SW19047EB56	SW19049EB56	SW19050EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ8.5 x 47.3(H)	Φ8.5 x 47.3(H)	Φ8.5 x 47.3(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	ISM-868MHz	ISM-915MHz	2.4G WiFi/BT
Frequency (MHz)	868	915	2400~2500
VSWR	1.26	1.52	<1.6
Peak Gain (dBi)	1.62	0.44	1.7~3.7
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	25	25

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE022	SWE025	SWE027
Product Pictures			
PN	SZ19206WB52	SW19068EB56	SW19073EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	17.5 x 159(H)	220(L) x 28(W) x 8(H)	152.4(L) x 21.79(W) x 14.49(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	4G/3G/2G/NB-IoT/Cat-M1	5G/4G/3G/2G/NB-IoT /Cat-M1/WiFi/BT/LoRa	5G/4G/3G/2G/NB-IoT/ Cat-M1/WiFi/BT
Frequency (MHz)	698~960, 1710~2690	433~6000	600~6000
VSWR	< 2.5, < 3.0	< 4.5	< 3.5
Peak Gain (dBi)	1.0~5.0, -1.0~3.8	-1.5~4.5	-2.0~5.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	25	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE030	SWE032	SWE035
Product Pictures			
PN	SW20023EB56	SW20035EB56	SW20268EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ10 x 109(H)	Φ8.0 x 48.6(H)	193(L) x 16(W) x 13.08(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	ISM-868MHz/ 915MHz	ISM-433MHz	2.4G/5G WiFi
Frequency (MHz)	868, 915	433	2400~2500, 5100~5900
VSWR	1.74, 1.51	1.26	< 2.0, < 2.0
Peak Gain (dBi)	2.19, 1.96	-1.14	4.5~5.3, 5.2~6.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	25	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE037	SWE037-F
Product Pictures		
PN	SW20284EB56	SW24058EB56
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	Φ8.0 x 48.6(H)	Φ8.9 x 42.2(H)
Operating temperature	-40 °C ~ +85 °C	- 20 °C ~ +65 °C
Electrical Specifications		
Standards	4G/3G/2G/NB-IoT	4G/3G/2G
Frequency (MHz)	698~960, 1710~2170	791~960, 1710 ~ 2170, 2500~2700
VSWR	< 5.0, < 10.0	< 4.0, < 5.0, < 2.0
Peak Gain (dBi)	-4.0~3.0, -0.5~3.5	0.7~3.7, 0.6~4.0, 1.6~3.5
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	25	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE038	SWE039
Product Pictures		
PN	SZ20228WB56	SW20287EB56
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	Φ13 x 193(H)	Φ8.0 x 51.5(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	5G/4G/3G/2G//NB-IoT/Cat-M1	3G/2G/NB-IoT
Frequency (MHz)	600~960, 1400~2700, 3000~6000	698~960, 1710~2170
VSWR	< 5.0, < 4.0, < 4.0	< 5.0, < 10.0
Peak Gain (dBi)	-3.0~4.5 0.5~5.0 1.0~6.0	-4.5~4.0, 0~4.0
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	25

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE043	SWE044	SWE045
Product Pictures			
PN	SW20293EB56	SW20294EB56	SW20303EB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ8.0 x 48.6(H)	Φ8.0 x 51.5(H)	Φ10 x 109(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	UWB CH1~CH5	UWB CH1~CH9	2.4G WiFi/5G WiFi/WIFI6/6E
Frequency (MHz)	2000~3000, 3000~4000, 4000~5000, 5000~6000	2000~8000	2400~2500, 5100~7125
VSWR	< 3.0, < 2.5, < 2.5, < 3.0	< 5.0	< 2.0, < 3.0
Peak Gain (dBi)	2.5~4.5, 2.1~4.0, 2.4~4.3, 2.7~4.5	-0.2~5.7	2.4~3.3, 4.8~6.6
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	25	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE046	SWE047
Product Pictures		
PN	SW20087EB56	SW20090EB56
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	Φ10 x 109(H)	Φ8.0 x 48.6(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	GPS/GLONASS/BEIDOU /GALILEO	ISM-868MHz/915MHz/2.4G WiFiB
Frequency (MHz)	1559, 1575.42, 1602	868, 915, 2400~2500
VSWR	1.2, 1.1, 1.2	1.7, 1.7, < 2.0
Peak Gain (dBi)	4.3, 4.1, 4.4	2.5, 3.4, 2.0~2.7
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	25

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE050	SWE051
Product Pictures		
PN	SW21012EB56	SZ21413WB56
General Specifications		
Mounting type	Magnetic Mount	Connector Mount
Connector type	SMA-M	SMA-M
Cable length(mm)	1000(RG174)	/
Dimensions (mm)	Φ30 x 263(H)	Φ13.0 x 44.1 x 194(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	3G/2G	4G/3G/2G/NB-IoT/Cat-M1/WiFi6/6E
Frequency (MHz)	824~960, 1710~2170	698~960, 1710~2690, 5925~7125
VSWR	< 3.5, < 2.5	< 3.1, < 3.5, < 3.2
Peak Gain (dBi)	-2.6~3.1, 2.2~4.8	-1.2~1.9, 1.1~5.1, 2.0~5.3
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	25	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE052	SWE053	SWE054
Product Pictures			
PN	SH21157WB56	SZ21450WB56	SZ21451WB56
General Specifications			
Mounting type	Connector Mount	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Dimensions (mm)	Φ10 x 109(H)	Φ13.0 x 44.1 x 194(H)	Φ13.0 x 44.1 x 194(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	LoRa 470~510MHz	5G/4G/3G/2G/NB-IoT /Cat-M1/WiFi6/6E	2.4G WiFi/5G WiFi/WiFi6/6E
Frequency (MHz)	430-470	698~960, 1710~2690, 3300~6000	2400~2500, 5100~7125
VSWR	< 3.0	< 3.2, < 4.3, < 3.5	< 1.5, < 2.5
Peak Gain (dBi)	-1.8~-0.8	--0.9~2.4, -1.9~4.3, -7.8~5.7	1.0~3.0, 2.0~6.5
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE056	SWE057	SWE059
Product Pictures			
PN	SW22013EB56	SZ22233WB56	SW22073EB56
General Specifications			
Mounting type	Connector Mount	Magnetic Mount	Connector Mount
Connector type	SMA-M	SMA-M	SMA-M
Cable length(mm)	/	3000(RG58U)	/
Dimensions (mm)	Φ8.0 x 48.6(H)	48.7 x 82 x 170(H)	Φ8.0 x 48.6(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	ISM-868MHz	5G/4G/3G/2G/NB-IoT/Cat-M/WiFi	2.4G WiFi/5G WiFi
Frequency (MHz)	868	600~960, 1710~2690, 3300-6000	2400~2500, 5100~5900
VSWR	1.15	< 6.0, < 3.0, < 3.0	< 2.0, < 2.0
Peak Gain (dBi)	2.91	-0.87~2.32, 0.64~3.69, 0.61~4.48	2.5~3.6, 1.1~4.3
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	25	5	5

Notes:

- Cable and connector types can be customized




External Antenna

Product	SWE067	SWE068
Product Pictures		
PN	SW24052EB56	SW24053EB56
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	17.5 x 159(H)	152.4(L) x 21.79(W) x 14.49(H)
Operating temperature	-20°C ~ +65 °C	-20°C ~ +65 °C
Electrical Specifications		
Standards	4G/3G/2G/NTN	5G/4G/3G/2G/NTN
Frequency (MHz)	690 ~960, 1700 ~2700, 1525 ~1660.5, 1980 ~2200	617~960, 1500~2700, 3000~6000, 1525~1660.5, 1980~2200
VSWR	< 3.0, < 3.0, < 3.0, < 3.0	<3.0, <3.0, <3.0, <3.0, <4.0
Peak Gain (dBi)	0.3~3.1, 2.4~5.8, 4.2~5.2, 4.3~5.8	-1.6~3.1, 0.4~6.0, -2.0~5.8, 2.8~5.7, 3.4~6.0
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE069	SWE070	SWE071
Product Pictures			
PN	SW24131IB52	SW24134EB78	SW24167EB56
General Specifications			
Mounting type	Connector Mount	Magnetic Mount	Connector Mount
Connector type	SMA-M	SMA-M(3M RG174 cable length)	SMA-M
Dimensions (mm)	Φ10.5 x 51.0(H)	Φ30 x 155(H)	Φ10 x 109(H)
Operating temperature	-20°C ~ +65 °C	-20°C ~ +65 °C	-40 °C ~ +85 °C
Electrical Specifications			
Standards	4G/3G/2G	4G/3G/2G	4G/3G/2G
Frequency (MHz)	698~960, 1710~2170	820~960, 1700~2700	698~960, 1710~2170, 2300~2690
VSWR	< 6.0, < 6.0	< 2.0 < 2.0	< 4.0, < 3.5, < 3.0
Peak Gain (dBi)	0.6~2.8, 0.8~4.2	-1.7 ~ 2.5 -3.5 ~ 0.5	-0.4~2.0, 2.8~5.0, 1.3~4.6
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE072	SWE073
Product Pictures		
PN	SW25005WB52	SW25006WB52
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	Φ10.5 x 52.0(H)	Φ10.5 x 51.0(H)
Operating temperature	-20°C ~ +65 °C	-20°C ~ +65 °C
Electrical Specifications		
Standards	5G/4G/3G/2G	5G/4G/3G/2G
Frequency (MHz)	698~960, 1710~2690, 3300~4200, 4400~6000	698~960, 1710~2690, 3300~4200, 4400~6000
VSWR	< 4.0, < 12.0, < 17.0, < 17.0	< 9.0, < 7.0, < 15.0, < 15.0
Peak Gain (dBi)	0.1~4.0, -6.7~4.6, -7.7~4.2, -5.9~4.4	-2.3~3.4, -5.9~4.5, -4.6~1.3, -3.6~3.4
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized



External Antenna

Product	SWE075	SWE076
Product Pictures		
PN		
General Specifications	Pedestal PN: SW25106EB78 Spring rod PN: SW25086EB78-2	Pedestal PN: SW25128EB78-1 Spring rod PN: SW25128EB78-2
Mounting type	Magnetic Mount	Magnetic Mount
Connector type	SMA-M	SMA-M
Cable length(mm)	3000	3000
Dimensions (mm)	Φ70 X 468(H)	Φ70 X 439(H)
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	4G&3G&2G	LTE FDD B31 B20 B8
Frequency (MHz)	600~960, 1710~2690, 2300-2700	452~468, 791~862, 880~960
VSWR	< 2.5, < 2.0, < 2.0	< 2.0, < 2.5, < 2.5
Peak Gain (dBi)	0.3~3.0, 2.3~5.8, 1.9~5.5	-0.5~0.6, 0.8~2.5, 0.1~1.6
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized


External Antenna

Product	SWE077	SWE078
Product Pictures		
PN	SW25131WW56	SW25132EB56
General Specifications		
Mounting type	Lock Mount	Connector Mount
Connector type	IPEX 1	SMA-M
Cable length(mm)	100	/
Dimensions (mm)	189.0(L) x 16.0(W) x 9.3(H)	Φ8.0 x 48.6(H)
Operating temperature	40 °C ~ +85 °C	-20°C ~ +65 °C
Electrical Specifications		
Standards	2.4G WiFi/5G WiFi	ISM-433MHz
Frequency (MHz)	2400~2500, 5100~5900	433
VSWR	< 2.0, < 2.0	1.39
Peak Gain (dBi)	5.5~6.0, 6.1~7.7	2.57
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	25

Notes:

- Cable and connector types can be customized



Combination Antenna

Product	SWB001		
Product Pictures			
PN	SW19012EB56		
General Specifications			
Mounting type	Adhesive & Screw Mount		
Connector type	SMA-M		
Cable length(mm)	3000(RG174)		
Dimensions (mm)	Φ81.0 x 24.9(H)		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1	GPS/GLONASS/GALILEO
Frequency (MHz)	699~960, 1710~2170, 2300~2690	699~960, 1710~2170, 2300~2690	1575.42, 1602
VSWR	<3.0, <2.0, <2.0	<3.0, <2.0, <2.0	1.2, 1.6
Peak Gain (dBi)	0~3.5 (699~960MHz) 0.5~3.5 (1710~2170MHz) 0.5~3.5 (2300~2690MHz)	0.8~3.8 (699~960MHz) 2.0~5.0 (1710~2170MHz) 1.5~3.0 (2300~2690MHz)	0.6, 1.0
Active Gain (dB)	/	/	18@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB001LD		SWB001LD1
Product Pictures			
PN	SW19012EB56-2		SW20065EB56
General Specifications			
Mounting type	Adhesive & Screw Mount		Adhesive & Screw Mount
Connector type	SMA-M		SMA-M
Cable length(mm)	3000(RG174)		1000(RG174)
Dimensions (mm)	Φ81.0 x 24.9(H)		Φ81.0 x 24.9(H)
Operating temperature	-40 °C ~ +85 °C		-40 °C ~ +85 °C
Electrical Specifications	Cable 1	Cable 2	Cable 1
Standards	4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1	4G/3G/2G/NB-IoT/Cat-M1
Frequency (MHz)	698~960, 1710~2690	698~960, 1710~2690	698~960, 1710~2170, 2300~2690
VSWR	<3.0, <2.0	<3.0, <2.0, <2.0	<4.0, <3.0, <3.5
Peak Gain (dBi)	-3.4~-0.3 (698~960MHz) -1.6~1.9 (1710~2690MHz)	-3.2~0.3 (698~960MHz) -1.9~1.5 (1710~2690MHz)	-2.0~4.0 (698~960MHz) 4.2~6.2 (1710~2170MHz) 4.5~6.5 (2300~2690MHz)
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	Linear
Max. Input Power (W)	5	5	5

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB003	
Product Pictures		
PN	SW19078EB56	
General Specifications		
Mounting type	Magnetic Mount	
Connector type	FAKRA	
Cable length(mm)	3000(RG174)	
Dimensions (mm)	Φ81.0 x 14.32 (H)	
Operating temperature	-40 °C ~ +85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	4G/3G/2G	GPS/GLONASS/GALILEO
Frequency (MHz)	698~960, 1710~2170, 2300~2690	1575.42, 1598~1610
VSWR	<3.0, <3.0, <3.0	1.23, <2.0
Peak Gain (dBi)	-0.5~2.5 (698~960MHz) -0.4~3.0 (1710~2170MHz) 0.6~3.2 (2300~2690MHz)	0.4, 0.3~0.9
Active Gain (dB)	/	28@ 3.6V
Impedance (Ohm)	50	50
Polarization	Linear	RHCP
Max. Input Power (W)	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB004		
Product Pictures			
PN	SW20026EB56		
General Specifications			
Mounting type	Screw Mount		
Connector type	SMA-M		
Cable length(mm)	3000(RG174)		
Dimensions (mm)	Φ99.96 x 105.8(H)		
Ingress protection	IP67		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G	4G/3G/2G	GPS/GLONASS/GALILEO/BEIDOU
Frequency (MHz)	690~960, 1710~2690	690~960, 1710~2690	1559, 1575.42, 1602
VSWR	<3.8, <2.8	<2.9, <1.7	2.4, 1.77, 1.34
Peak Gain (dBi)	0.2~4.1, -0.4~3.3	0.3~3.0, 0.5~4.2	3.24, 1.92, 2.65
Active Gain (dB)	/	/	28@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB005		
Product Pictures			
PN	SW20031EB56		
General Specifications			
Mounting type	Screw Mount		
Connector type	SMA-M		
Dimensions (mm)	Φ99.96 x 105.8(H)		
Cable length(mm)	3000(RG174)		
Ingress protection	IP67		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G	2.4G/5G WiFi	GPS/GLONASS/GALILEO/BEIDOU
Frequency (MHz)	690~960, 1710~2690	2400~2500, 5100~5900	1559, 1575.42, 1602
VSWR	<3.7, <2.0	<2.3, <2.5	2.4, 1.77, 1.34
Peak Gain (dBi)	-1.3~1.6, 0.5~2.6	3.1~4.4, 2.7~5.2	3.24, 1.92, 2.65
Active Gain (dB)	/	/	28@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB005-1		
Product Pictures			
PN	SW20031EB56-1		
General Specifications			
Mounting type	Screw Mount		
Connector type	SMA-Male(X1) SMA Female(X2)		
Dimensions (mm)	Φ99.96 x 105.8(H)		
Cable length(mm)	500(RG174)		
Ingress protection	IP67		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G	2.4G/5G WiFi	GPS/GLONASS/GALILEO/BEIDOU
Frequency (MHz)	690~960, 1710~2690	2400~2500, 5100~5900	1559, 1575.42, 1602
VSWR	<3.7, <2.0	<2.3, <2.5	2.4, 1.77, 1.34
Peak Gain (dBi)	-1.3~1.6, 0.5~2.6	3.1~4.4, 2.7~5.2	3.24, 1.92, 2.65
Active Gain (dB)	/	/	28@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB005-2		
Product Pictures			
PN	SW20031EB56-2		
General Specifications			
Mounting type	Screw Mount		
Connector type	FAKRA-Z		
Dimensions (mm)	Φ99.96 x 105.8(H)		
Cable length(mm)	2500(RG174)		
Ingress protection	IP67		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G	2.4G/5G WiFi	GPS/GLONASS/GALILEO/BEIDOU
Frequency (MHz)	690~960, 1710~2690	2400~2500, 5100~5900	1559, 1575.42, 1602
VSWR	<3.7, <2.0	<2.3, <2.5	2.4, 1.77, 1.34
Peak Gain (dBi)	-1.3~1.6, 0.5~2.6	3.1~4.4, 2.7~5.2	3.24, 1.92, 2.65
Active Gain (dB)	/	/	28@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB005-3		
Product Pictures			
PN	SW20031EB56-3		
General Specifications			
Mounting type	Screw Mount		
Connector type	SMA-M		
Dimensions (mm)	Φ99.96 x 105.8(H)		
Cable length(mm)	250(RG174)		
Ingress protection	IP67		
Operating temperature	-40 °C ~ +85 °C		
Electrical Specifications	Cable 1	Cable 2	Cable 3
Standards	4G/3G/2G	2.4G/5G WiFi	GPS/GLONASS/GALILEO/BEIDOU
Frequency (MHz)	690~960, 1710~2690	2400~2500, 5100~5900	1559, 1575.42, 1602
VSWR	<3.7, <2.0	<2.3, <2.5	2.4, 1.77, 1.34
Peak Gain (dBi)	-1.3~1.6, 0.5~2.6	3.1~4.4, 2.7~5.2	3.24, 1.92, 2.65
Active Gain (dB)	/	/	28@3.6V
Impedance (Ohm)	50	50	50
Polarization	Linear	Linear	RHCP
Max. Input Power (W)	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB006
Product Pictures	 The image shows two views of the SWB006 antenna. On the left is a perspective view of a black, dome-shaped antenna with a gold SMA-M connector at the base. On the right is a top-down view of the same antenna, showing the circular base and the central mounting point.
PN	SW20060EB56
General Specifications	
Mounting type	Screw Mount
Connector type	SMA-M
Dimensions (mm)	Φ99.96 x 105.8(H)
Cable length(mm)	250(RG174)
Ingress protection	IP67
Operating temperature	-40 °C ~ +85 °C
Electrical Specifications	
Standards	2.4G/5G WIFI
Frequency (MHz)	2400~2500, 4900~5900
VSWR	<2.0, <2.5
Peak Gain (dBi)	2.5~3.0, 0.5~4.5
Impedance (Ohm)	50
Polarization	Linear
Max. Input Power (W)	25

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB007			
Product Pictures				
PN	SW20267EB56			
General Specifications				
Mounting type	Screw Mount			
Connector type	SMA-M			
Dimensions (mm)	Φ99.96 x 105.8(H)			
Cable length(mm)	3000(RG174)			
Ingress protection	IP67			
Operating temperature	-40 °C ~ +85 °C			
Electrical Specifications	Cable 1	Cable 2	Cable 3	Cable 4
Standards	5G/4G/3G/2G	2.4G/5G WIFI	BT	GPS/GLONASS /GALILEO/BEIDOU
Frequency (MHz)	600~960, 1710~6000	2400~2500, 4900~5900	2400~2480	1559, 1575.42, 1602
VSWR	<5.0, <4.5	<2.0, <2.0	<3.0	2.4, 1.77, 1.34
Peak Gain (dBi)	-4.3~3.7, 0.5~7.0	2.5~4.2, 2.5~5.0	2.5~3.0	3.24, 1.92, 2.65
Active Gain (dB)	/	/	/	28@3.6V
Impedance (Ohm)	50	50	50	50
Polarization	Linear	Linear	Linear	RHCP
Max. Input Power (W)	5	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers



Combination Antenna

Product	SWB008				
Product Pictures					
PN	SW20279EB56				
General Specifications					
Mounting type	Screw Mount				
Connector type	SMA-M				
Dimensions (mm)	Φ99.96 x 105.8(H)				
Cable length(mm)	2000(RG174)				
Ingress protection	IP67				
Operating temperature	-40 °C ~ +85 °C				
Electrical Specifications	Cable 1	Cable 2	Cable 3	Cable 4	Cable 5
Standards	5G N1/N41/N77/N78/ N79	5G N1/N41/N77/N78/ N79	5G N1/N41/N77/N78/ N79	5G N1/N41/N77/N78/ N79	2.4G/5G WIFI
Frequency (MHz)	1900~2700, 3300~4200, 4400~5000	1900~2700, 3300~4200, 4400~5000	1900~2700, 3300~4200, 4400~5000	1900~2700, 3300~4200, 4400~5000	2400~2500, 4900~5900
VSWR	<2.5, <2.0, <2.5	<2.5, <2.0, <2.5	<2.5, <2.0, <2.0	<3.0, <2.0, <3.0	<2.0, <2.0
Peak Gain (dBi)	0~5.0, 2.5~5.0, 2.5~6.0	1.0~5.0, 2.0~4.0, 2.5~4.0	0.5~5.0, 2.0~6.0, 2.5~5.0	0~4.0, 1.5~4.0, 2.0~4.0	2.5~3.5, 1.5~4.5
Impedance (Ohm)	50	50	50	50	50
Polarization	Linear	Linear	Linear	Linear	Linear
Max. Input Power (W)	5	5	5	5	5

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB009	SWB010
Product Pictures		
PN	SW20281EB56	SW20280EB56
General Specifications		
Mounting type	Screw Mount	Screw Mount
Connector type	SMA-M	SMA-M
Dimensions (mm)	Φ46.4 x 26.1(H)	Φ99.96 x 105.8(H)
Cable length(mm)	2000(RG174)	50000(SYWV-50-2)
Ingress protection	/	IP67
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	4G/3G/2G	IRNSS/GPS/GLONASS/GALILEO
Frequency (MHz)	700~960, 1710~2170	1176, 1575.42, 1602
VSWR	< 3.5, < 2.9	1.2, 1.1, 1.1
Peak Gain (dBi)	-0.7~2.7 , 1.2~4.4	2.7, 4.4, 5.8
Active Gain (dB)	/	30±1dB@3.6V
Impedance (Ohm)	50	50
Polarization	Linear	RHCP
Max. Input Power (W)	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB011	
Product Pictures		
PN	SW20283EB56	
General Specifications		
Mounting type	Screw Mount	
Connector type	SMA-M	
Dimensions (mm)	Φ99.96 x 105.8(H)	
Cable length(mm)	250 (RG174)	
Ingress protection	IP67	
Operating temperature	-40 °C ~ +85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	2.4G/5G WiFi	BT
Frequency (MHz)	2400~2500, 5100~5900	2400~2500
VSWR	< 1.2, < 3.1	< 1.4
Peak Gain (dBi)	1.8~2.5, 1.3~3.9	2.5~4.0
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB012				
Product Pictures					
PN	SW20286EB56				
General Specifications					
Mounting type	Screw Mount				
Connector type	SMA-M				
Dimensions (mm)	Φ99.96 x 105.8(H)				
Cable length(mm)	3000(RG174)				
Ingress protection	IP67				
Operating temperature	-40 °C ~ +85 °C				
Electrical Specifications	Cable 1	Cable 2	Cable 3	Cable 4	Cable 5
Standards	5G/4G/3G/2G	5G/4G/3G/2G	5G/4G/3G/2G	5G/4G/3G/2G	GPS/GLONASS /GALILEO/BEIDOU
Frequency (MHz)	600~960, 1400~2700, 3000~6000	600~960, 1400~2700, 3000~6000	600~960, 1400~2700, 3000~6000	600~960, 1400~2700, 3000~6000	1559, 1575.42, 1602
VSWR	<3.3, <3.0, <2.7	<4.6, <3.5, <3.0	<4.6, <3.0, <3.0	<3.6, <2.9, <2.5	2.4, 1.77, 1.34
Peak Gain (dBi)	-0.1~3.1, -1.0~4.1, 0.6~3.6	-2.4~2.8, -2.1~4.1, -0.3~3.8	-0.9~3.4, -1.3~3.6, 0.2~3.2	-1.5~2.1, 0~4.3, 0.5~3.5	3.24, 1.92, 2.65
Active Gain (dB)	/	/	/	/	28@3.6V
Impedance (Ohm)	50	50	50	50	50
Polarization	Linear	Linear	Linear	Linear	RHCP
Max. Input Power (W)	5	5	5	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB013			
Product Pictures				
PN	PN:SZ20421WB56 (4*5G&2*WIFI 6 in1) PN:SZ20421WB56-GPS (4*5G&1*WIFI&1*GNSS 6 in1)			
General Specifications				
Mounting type	Adhesive Mount			
Connector type	SMA-M			
Dimensions (mm)	80(L) x 70(W) x 25(H)			
Cable length(mm)	2000(RG174)			
Ingress protection	IP67			
Operating temperature	-40 °C ~ +85 °C			
Impedance (Ohm)	50			
Polarization	Linear			
Max. Input Power (W)	5			
Electrical Specifications	Cable 1	Cable 2	Cable 3	Cable 4
Standards	4G/5G L/M/H Band	4G/5G L/M/H Band	4G/5G M/H Band	4G/5G M/H Band
Frequency (MHz)	700~960, 1710~2690, 3300~5925	700~960, 1710~2690, 3300~5925	1427~2690, 3300~5925	1427~2690, 3300~5925
VSWR	<5.0, <3.0, <3.0	<5.5, <5.0, <2.0	<3.0, <2.0	<4.0, <2.5
Peak Gain (dBi)	-2~-1.5, -0.5~3.0, 1.0~4.0	-1.0~3.0, -0.5~2.0, -2.0~4.0	-2.7~2.0, -0.5~4.8	-1.0~2.0, 1.0~2.6
Electrical Specifications	Cable 5	Cable 6	Cable 7	
Standards	4G/5G M/H Band	4G/5G M/H Band	GNSS	
Frequency (MHz)	1710~2690, 3300~5925	1710~2690, 3300~5925	1561/1575/1602	
VSWR	<2.5, <2.0	<3.0, <2.5	<1.5	
Peak Gain (dBi)	-2.0~1.0, -0.2~4.2	-3.5~2.2, -0.5~1.9	2.0~3.0	

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB016	
Product Pictures		
PN	SW22015EB56	
General Specifications		
Mounting type	Adhesive & Screw Mount	
Connector type	SMA-M	
Dimensions (mm)	Φ81.0 x 24.9(H)	
Cable length(mm)	3000(RG174)	
Operating temperature	-40 °C ~ +85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	4G/3G/2G/NB-IoT/Cat-M1	GPS/GLONASS/GALILEO
Frequency (MHz)	698~960, 1710~2170, 2300~2690	1575.42, 1602
VSWR	<2.5, <2.0, <2.0	1.21, 1.22
Peak Gain (dBi)	-5.5~-0.5 (698~960MHz) -0.5~2.2 (1710~2170MHz) 0.5~1.8 (2300~2690MHz)	1.75, 0.55
Active Gain (dB)	/	15±1@ 3.6V
Impedance (Ohm)	50	50
Polarization	Linear	RHCP
Max. Input Power (W)	5	/

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB017	
Product Pictures		
PN	SZ22139WB56 (Low lose RG174) SZ22403WB56 (ALSR100)	
General Specifications		
Mounting type	Screw Mount	
Connector type	RP-SMA-M	
Dimensions (mm)	Φ81.0 x 24.5(H)	
Cable length(mm)	3000(RG174)	
Operating temperature	-40 °C ~ +85 °C	
Electrical Specifications	Cable 1	Cable 2
Standards	2.4G/5G WiFi/WiFi6E	WiFi6E
Frequency (MHz)	2400~2500, 5150~5850, 5925~7125	2400~2500, 5150~5850, 5925~7125
VSWR	<2.0, <2.0, <2.0	<2.0, <2.0, <2.0
Peak Gain (dBi)	2.2~2.7 (2400-2500MHz) 2.9~4.3 (5150-5850MHz) 1.0~2.2 (5925-7125MHz)	3.1~3.3 (2400-2500MHz) 2.5~3.3 (5150-5850MHz) 2.0~3.9 (5925-7125MHz)
Impedance (Ohm)	50	50
Polarization	Linear	Linear
Max. Input Power (W)	5	5

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers


Combination Antenna

Product	SWB020
Product Pictures	
PN	SZ22707WW56
General Specifications	
Mounting type	Nut holder
Connector type	SMA-M
Dimensions (mm)	410 x 210 x 50
Cable length (mm)	5000(RG58U)
Material	Aluminium Alloy& ABS
Operating temperature	-40 °C ~ +85 °C
Electrical Specifications	
Standards	5G/4G/3G/2G
Frequency (MHz)	617~960, 1710~2690, 3300~6000
VSWR	<5.0, <2.0, <3.0
Peak Gain (dBi)	3.2~9.3, 7.0~8.5, 6.2~11.0
Impedance (Ohm)	50
Polarization	Linear
Max. Input Power (W)	50

Notes:


- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers

Combination Antenna

Product	SWB033			
Product Pictures				
PN	SW24024EB56			
General Specifications				
Mounting type	Screw Mount			
Connector type	SMA-M			
Cable length(mm)	3000 (RG174)			
Dimensions (mm)	Φ99.96 x 105.8(H)			
Ingress protection	IP67			
Operating temperature	-20 °C ~ +65 °C			
Electrical Specifications	Cable 1	Cable 2	Cable 3	Cable 4
Standards	4G/3G/2G	4G/3G/2G	GPS/GLONASS/ GALILEO/BEIDOU	2.4G WiFi/5G WiFi/WiFi6 /6E
Frequency (MHz)	698~960, 1710~2690	698~960, 1710~2690	1561, 1575, 1602	2400~2500, 5100~7125
VSWR	<2.0, <3.0	<3.0, <2.0	1.92, 1.45, 1.37	<2.0, <3.0
Peak Gain (dBi)	-0.4~3.0, -0.4~4.6	1.4~3.7, 0.4~4.3	1.59, 2.21, 0.07	1.3~2.7, 1.2~4.2
Active Gain (dB)	/	/	32.5, 32.9, 32.0 @3.3V	/
Impedance (Ohm)	50	50	50	50
Polarization	Linear	Linear	RHCP	Linear
Max. Input Power (W)	5	5	/	5

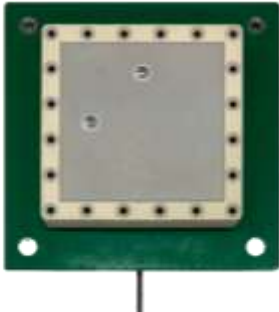

Notes:

- Cable and connector types can be customized
- Different types of antennas can be combined according to the specific needs of customers

Product	SWT004
Product Pictures	
PN	SZ22700IA69
General Specifications	
Mounting type	Screw Mount
Connector type	RA-MMCX(M)
Dimensions (mm)	89.89(L) x 89.89(M) x 13.5(H)
Cable length (mm)	43(RG174)
Material	High Frequency Board & SUS304 Nickel Plating
Operating temperature	-40 °C ~ +85 °C
Electrical Specifications	
Standards	RFID
Frequency (MHz)	902~928
VSWR	< 1.5
Peak Gain (dBi)	3.2~4.0
Impedance (Ohm)	50
Polarization	Circular
Max. Input Power (W)	/

Notes:

- Cable and connector types can be customized

Product	SWN002	SWN003
Product Pictures		
PN	SW25103IA93	
General Specifications		
Mounting type	Adhesive & Screw Mount	Adhesive Mount
Connector type	IPEX MHF1	IPEX MHF1
Dimensions (mm)	80(L) x 80(W) x 14.4(H)	45(L) x 12.7(W) x 0.12(H)
Cable length (mm)	149	100
Material	PPO	FPC
Operating temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Electrical Specifications		
Standards	NTN n255/GPS/GALLEO/BEIDOU/GLONASS/Iridium	NTN n255
Frequency (MHz)	RX:1525~1559, TX:1626.5~1660.5, 1575, 1602, 1616~1626.5	RX:1525~1559, TX:1626.5~1660.5
VSWR	< 2.0, < 2.0, 1.1, 1.16, < 2.0	< 2.0, < 2.0
Peak Gain (dBi)	4.3~4.9, 5.0~5.9, 4.92, 5.2, 5.2~5.9	3.6~4.5, 3.1~4.5
Impedance (Ohm)	50	50
Polarization	RHCP	Linear
Max. Input Power (W)	/	5

Notes:

- Cable and connector types can be customized

Example of connectors







Standard connectors and cable types



SMA-Male
 SMA-Female
 SMA-Male R/A
 SMA-Female R/A
 SMA-Male RP
 SMA-Female RP
 SMA-Male RP R/A
 SMA-Female Bulkhead
 FME-Male
 FME-Female
 FME-Male Bulkhead
 FME-Female R/A
 MCX-Male
 MCX-Female
 MCX-Male R/A
 MCX-Female R/A
 MMCX
 F-Male
 F-Female
 N-Male
 N-Female
 N-Female Bulkhead



SMB-Male
 SMB-Female
 SMB-Female B/H
 SMB-Female R/A
 TNC-Male
 TNC-Female
 TNC-Male RP
 TNC-Female Bulkhead
 SMC-Male
 SMC-Female
 SMC-Male R/A
 SMC-Female Bulkhead
 BNC-Male
 BNC-Female
 FAKRA all types
 QMA
 CRC9 (TS5)
 U.FL / H.FL / W.FL
 IPEX MHF 4
 GSC



SMB-Male
 SMB-Female
 SMB-Female B/H
 SMB-Female R/A
 TNC-Male
 TNC-Female
 TNC-Male RP
 TNC-Female Bulkhead
 SMC-Male
 SMC-Female
 SMC-Male R/A
 SMC-Female Bulkhead
 BNC-Male
 BNC-Female
 FAKRA all types
 QMA
 CRC9 (TS5)
 U.FL / H.FL / W.FL
 IPEX MHF 4
 GSC



Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-KY/BNC-C-J	BNC-C-KY/BNC-C-J
Wire	RG316	RG174
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H



Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-KY/BNC-C-J	BNC-C-J/BNC-JS-3
Wire	RG58	RG316
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H



Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-J/BNC-JS-3	BNC-C-J/BNC-JS-3
Wire	RG316	RG178
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H



Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-KY/BNC-JS-3	BNC-C-KY/BNC-JS-3
Wire	RG316	RG174
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-KY/BNC-JS-3	BNC-C-J/BNC-JS-3
Wire	RG178	RG316
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-J/BNC-JS-3	BNC-C-J/BNC-JS-3
Wire	RG174	RG178
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	TNC-C-KY/TNC-C-J	TNC-C-KY/TNC-C-KY1.0
Wire	RG178	RG178
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-J/BNC-JS-3	TNC-C-KY/TNC-C-KY1.0
Wire	RG137	1.13
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Product Pictures		
General Specifications		
Mounting type	Connector Mount	Connector Mount
Connector type	BNC-C-J/TNCJW	N-C/N-KY
Wire	RG58	RG316
Dimensions (mm)	Customizable	Customizable
Operating temperature	- 40°C to + 85 °C	- 40°C to + 85 °C
Salt spray test	48H	48H

Sunnyway Shanghai HQ

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