



# TH-1550

1.5~5Ghz Broadband Gooseneck Antenna



## Electrical Properties

Parameter	Description
Frequency Band	1500-5000Mhz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.5:1
Peak Gain	0-3dbi
Power	20W

## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male)
Antenna Dimensions	Ø16 x 230mm ±15
Weight	110g
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
water proof	IP67

The TH-1550 Passive Antenna is the definitive solution for reliable, broadband connectivity across the 1.5 GHz to 5 GHz spectrum, making it perfect for a wide variety of RADIO & RF Transponder devices, modules, and essential services like long- and short-range communication, monitoring, data transmission, and ISM applications. Beyond its versatile performance, the TH-1550 boasts exceptional durability thanks to its ASA plastic housing, which delivers superior UV resistance—preventing fading and yellowing even in direct sunlight—and exhibits anti-aging properties 10 times greater than ABS. This excellent weather resistance and good high-temperature resistance (achieving a fire rating of UL94-HB or higher) ensure the TH-1550 provides maximum longevity and reliability for all your critical outdoor RF deployments. Please don't hesitate to email us if you have any questions.



# MA-700R

The MA-700R is an outdoor waterproof GNSS L1+L5 active antenna with high sensitivity, supporting L1 (1575.42 MHz) and L5 (1176.45 MHz) dual-band signals to enhance positioning accuracy and anti-interference performance. It achieves positioning accuracy within 2.5 meters, making it suitable for marine navigation, fishing equipment, AIS tracking, and various outdoor monitoring applications such as rainfall, wind speed, water level, bridges, and wind turbines. The antenna is compatible with major GNSS chipsets (including U-Blox, Broadcom, Qualcomm, and MTK), providing stable signal reception and low power consumption, and maintains reliable performance even in urban environments or partially obstructed conditions. For any inquiries, please feel free to contact us.



Marine navigation GNSS L1 / L5 antenna that will sustain harsh environment



### Advantages:

- Low noise figure
- Fully 100% weather proof IPX8.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability

### SPECIFICATIONS

PHYSICAL CONDITION	
Constructions	ASA-UV radome for 100% waterproof
Dimensions	90.5mm(Dia.) × 108.5mm(H)
Weight	150grams (w/o cable & connector).
Color	Standard in ivory white, other colours available upon request.
Base mounting	FB1 1"-14 UNS (optional)
Cable & Connector	
RF cable	10 meter RG58
Pulling strength	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	SMA(M) or TNC(M) or BNC(M) -----
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency	1582.5±23.5MHz(L1), and 1176±12MHz(L5)
Gain	30±2 dB typical at 3V (L1 and L5) 30±2 dB typical at 5V (L1 and L5)
Noise Figure	2.0 max
Bandwidth	±23.5MHz(L1) , ±12MHz(L5)
VSWR	2.0 max
Output impedance	50 Ω
Environmental	
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	95% non-condensing
Water Resistance	100% waterproof. IPX8



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# GA-38R



## L1/L5 GNSS CAR Antenna

Small size and ruggedness, demand of vehicle locating and marine navigation GNSS antenna that will sustain harsh environment.

### Specifications

PHYSICAL CONDITION	
Constructions	ABS / AB Glue for water seal in between
Dimensions	40.5mm (L) x 38mm (W) x 12.3mm
Color	(H) Black
Mounting	Magnet mount with two magnets or 3M Double sided tape
Cable & Connector	
RF cable	5 meter RG174/U (standard) cable, other length available
Connector	SMA(M) or other



Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency	1582.5 ± 23.5MHz (L1), and 1176 ± 12MHz
Gain	30 ± 2 dB typical at 3V (L1 and L5) 30 ± 2 dB typical at 5V (L1 and L5)
Noise Figure	2.0 max.
Bandwidth	± 23.5MHz(L1), ± 12MHz(L5)
Environmental	
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	95% non-condensing
Water Resistance	100% waterproof. IPX8

GA-38R is the integration of a high performance GNSS patch antenna and a state-of-the-art low noise amplifier into a very low profile/ extremely compact/ fully waterproof enclosure which, when connected to a GNSS receiver with 2.5~5.5V DC antenna power, provides excellent signal amplification and out-band filtering & rejection, provide 3V or 5V input Voltage is available.

FEATURES	APPLICATIONS	ADVANTAGES
Compact Construction/ Low Profile/ Fully Waterproof	Automobile GNSS	High performance
Magnet and Screw Mount Base	Bluetooth Receiver	Out-band filtering & rejection
Excellent Temperature Stability	Car Tracking Navigation System	Fully waterproof IPX8
Low Noise Figure	AVL / Fleet Management Systems	Voltage: 2.5 V ~5.5 V DC
High Sensitivity	External Antenna for Handheld GNSS	Provides excellent signal amplification
	External Antenna for PDA Navigator	ESD Design & TVS Design ( optional )

Please don't hesitate to email us if you have any questions.

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# GNSS Vehicle Locating & Marine Small L1 / L5 Antenna

## GA-62R, GA-65R, GA-68R

Small size and ruggedness, demand of vehicle locating and marine navigation GNSS antenna that will sustain harsh environment.

### Specifications:

<b>Model</b>	GA-62R	GA-65R	GA-68R
<b>Frequency</b>	L1 (1575.42MHz - GPS/Galileo/QZSS, 1602MHz - GLONASS, 1561.098MHz - BDS B1), L5 (1176.45MHz - GPS/Galileo E5a/QZSS/BDS B2a)		
<b>Polarization</b>	R.H.C.P		
<b>Gain</b>	30±2 dB		
<b>Voltages</b>	3-5V		
<b>Connector</b>	TNC(F) or SMA(F)		
<b>Optional</b>	RG58U-10M or CFD200-10M/20M/30M		
<b>Dimensions</b>	OD60x18.5mm	OD60x45mm	OD60x90mm
<b>Mounting</b>	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).		
<b>Radome</b>	ASA-UV		
<b>Waterproof</b>	IPX7		

Our GA-62R, GA-65R, and GA-68R are GNSS L1+L5 Active Antenna for High-Precision Positioning. The GNSS L1+L5 dual-band active antenna features a high-sensitivity design and supports dual-band L1 (1575.42 MHz) and L5 (1176.45 MHz) signals, which may significantly improve positioning accuracy and anti-interference capabilities.

Our GA-62R, GA-65R, and GA-68R are best for applications such as in-vehicle navigation, drones, smart agriculture, and logistics tracking, it can be used with mainstream GNSS chips as well. It offers highly stable signals and low power consumption.

#### Advantages:

- Low noise figure
- Fully weather proof.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability

Please don't hesitate to email us if you have any questions.



Outdoor 1.4Ghz Base Antenna

# TH-1400C

Fiber Glass Antenna 1350~1550Mhz



Frequency range	1350~1550Mhz
Gain	6dBi
V.S.W.R	<2.0
Impedence	50 ohm
Connector	N Type Female
Dimension	756mm +/-10 x OD20mm
Weight	0.76Kg
Polarization	vertical
Power handling	100W
Colour	white
Rated wind velocity	60m/s
Working Temperature	-40~60°C
Lightning Protection	Direct Ground

Our TH-1400C is a Fiber Glass Antenna. It's used as passive antenna for ground base stations of L-Band communication transmission equipment, jamming equipment, industrial, scientific, environmental monitoring applications... etc. Please don't hesitate to email us if you have any questions.

\* This specification is subject to change without prior notice

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# GNSS L1/L2/L5 Gooseneck Active Antenna

## GA-90R-TNC(M)

Our GA-90R is an Active antenna for high-precision GNSS L1/L2/L5 receivers. It's best for unmanned vehicles, drones, agricultural machinery, lawn mowers, land surveying, and professional field radio equipment... etc. The ASA is boasts excellent weather resistance, with aging resistance over 10 times that of ABS. It also offers excellent high-temperature resistance and a fire rating of UL94-HB or higher. The gooseneck design allows the antenna to be bending flexibly while adjusting. The internal design utilizes a four-arm spiral circular polarization. Please don't hesitate to email us if you have any questions.



### Electrical Properties

Parameter	Description
Frequency Band	1582.5±23.5MHz(L1), 1268±12MHz(L2), 1247±5MHz(L2), 1227±5.5MHz(L2), 1207±12MHz(L2) and 1176±12MHz(L5) PS. When covered with a radome and measured on LNA ground plane
Nominal Impedance	50 ohm
Polarization	R.H.C.P
Gain at Zenith	2 dBic typical @ L1; 1 dBic typical @ L2; -2 dBic typical @ L5
Gain at 10° elevation	0 dBic typical @ L1; -2 dBic typical @ L2; -5 dBic typical @ L5
Axial ratio	0.5 dB typical (L1, L2 and L5)
Return Loss	Please See Data-1
V.S.W.R	2.0 : 1

### Mechanical Properties

Parameter	Description
Working Frequency	1582.5±23.5MHz(L1), 1268±12MHz(L2), 1247±5MHz(L2), 1227±5.5MHz(L2), 1207±12MHz(L2) and 1176±12MHz(L5)
Gain	36±3 dB typical at 3.3V (L1, L2 and L5)
Noise Figure	1.5 dB typical at 3.3V (L1, L2 and L5)
Filter (Out of band attenuation)	Saw filter 30dB typical fo±50MHz 40dB typical fo±100MHz (fo=L1,L2~L5 band)
Impedance	50 Ω
Output V.S.W.R	2.0 max
Input Voltage	DC = 3~16V
Current	DC = 16±5mA at 3V~16V



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# TH-2458J

Our TH-2458J is a Passive Antenna for all types of Wi-Fi devices. It's best for data transmission and update of WIFI connected devices. The TPU hose is a mature, environmentally friendly material with exceptional properties of high tension, high pulling force, strength, and aging resistance. It also offers numerous excellent properties, including high water resistance, breathability, wind proofing, cold protection, antibacterial and mildew resistance, warmth retention, UV resistance, and energy release. Please don't hesitate to email us if you have any questions.



## ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band	2.4~2.5 & 5.1~5.85GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /4λ
Admitted Power radiation	1W
V.S.W.R	3.0:1 Max
Antenna Gain	0~3 dB

Note: Gain includes the cable loss



## MECHANICAL PROPERTIES

Parameter	Description
Antenna Type	External Antenna
Material	TPU (UL94-V0)
Touch Type	Screw Type
Connector Type	SMA (Male)
Antenna Dimensions	OD13.8x 51.0mm±0.5
Antenna Color	Black
Operating Temperature Range	-40°C~+80°C
Storage Temperature Range	-40°C~+80°C
Waterproof	IPX7 (Must match the silicone pad - optional)



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# TP-1314 • TP-1314A

## Specifications

MODEL	TP-1314	TP-1314A
Frequency range	1350MHz~1490MHz	
Gain	9 dBi	14 dBi
V.S.W.R	2.0 Max	
Impedence	50 ohm	
Connector	N Type Female	
Dimension	205 x 180 x 45mm	305 x 305 x 35mm
Weight	0.6Kg	1.1Kg
Polarization	Linear	
Power handling	50W Max	
HPBW / horizontal	65o	35o
HPBW / vertical	55o	35o
Radome color	white	
radome material	ABS +Aluminium allo	



## L Band Panel Antenna

Our TP-1314 / TP-1314A are Panel Antenna for L Band communication transmission equipment. You can apply them with UAV control data image transmission, wireless AP, PA signal transmission, interference, etc. The Outdoor Panel L-band high-gain directional antenna includes L-mounting for adjusting antenna's signal transmission and reception angles. Please don't hesitate to email us if you have any questions.



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Our TH-2460 is a Passive Antenna. It is the best for long and short distance communication services with 2.4~6GHZ RADIO, RF Transponder, module, technical applications, such as, industrial, scientific, medical, monitoring, data transmission, interference... etc. The gooseneck design allows the antenna to be bent and changed into any angle you wish. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.

## 2.4~6Ghz Gooseneck Antenna



# TH-2460

### Electrical Properties

Parameter	Description
Frequency Band	2.4~6Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
Return Loss	Please See Data-1
V.S.W.R	3.0 : 1
Gain	3db

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(Male)
Antenna Dimensions	265mm ±15
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

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# CAR GSM/LTE Antenna

Our MA-83B is the best for transmission antennas of various GSM/3G/4G LTE or NB-IoT devices. You can apply with 3G/4G LTE Radio or NB-IoT 3G/4G device transceiver antenna, such as, smart electricity meter, gas meter, water meter, vending machine, and various outdoor environment monitoring 3G/4G equipment. The strong magnetic base of the antenna is to help the antenna to be easy to remove and install. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.



**Electrical Properties**

Parameter	Description
Frequency Band	690-960/1710-1990/1990~2700MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
Return Loss	Please See Data-1
V.S.W.R	6.0 : 1
Antenna Peak Gain	~3 dBi

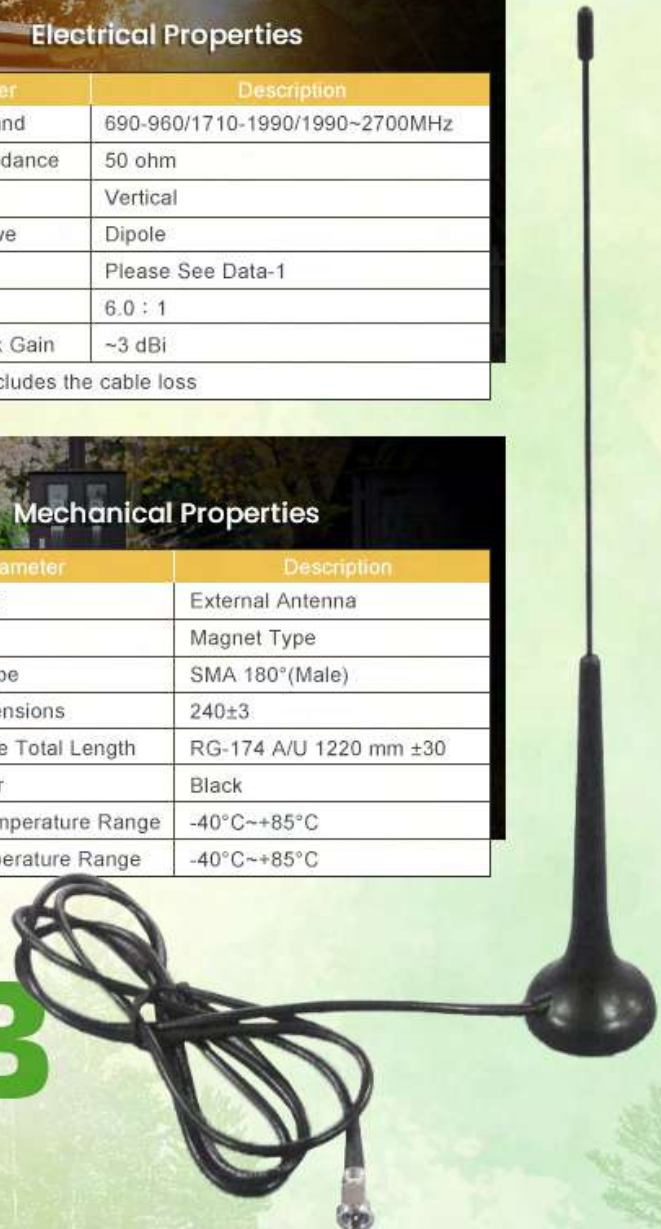
Note: Gain includes the cable loss



**Mechanical Properties**

Parameter	Description
Antenna Type	External Antenna
Touch Type	Magnet Type
Connector Type	SMA 180°(Male)
Antenna Dimensions	240±3
Antenna Cable Total Length	RG-174 A/U 1220 mm ±30
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

# MA-83B



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# TH-1375

Our TH-1375 is a Passive Antenna is designed with L Band and best for Iridium devices. It is suitable for short-range, long-range communication services with L Band radio positioning technology, industrial, scientific, medical, interference technology applications... etc. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.

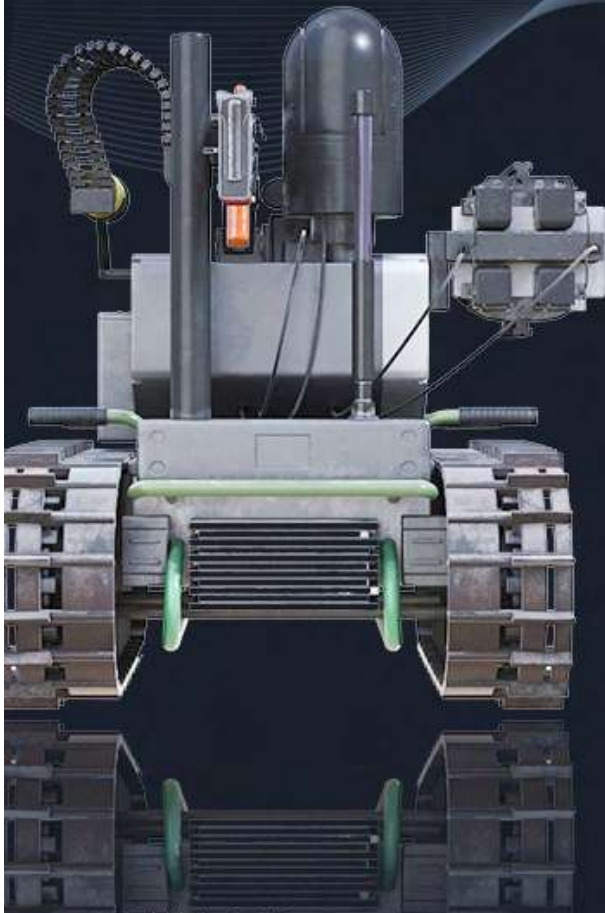


## ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band :	1300~1450Mhz
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R :	1300~1450Mhz

## MECHANICAL PROPERTIES

Parameter	Description
Antenna Type :	External Antenna
Material :	ASA
Touch Type :	Screw Type
Connector Type :	TNC connector (Male)
Antenna Dimensions :	Ø16 x 145mm ±15
Antenna Color :	Black
Operating Temperature Range :	-40°C~+85°C
Storage Temperature Range :	-40°C~+85°C



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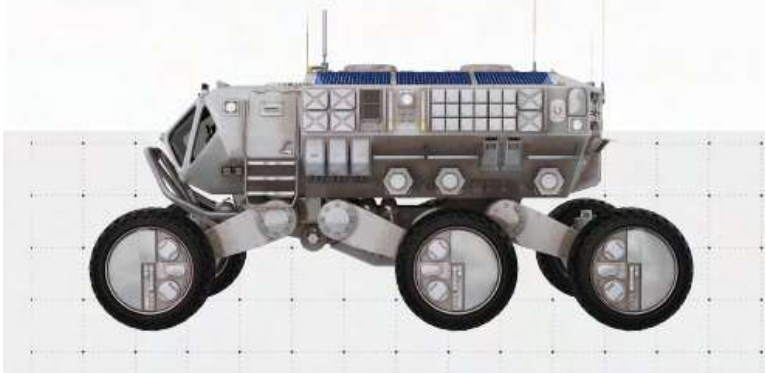
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## L Band & 2.4G & S Band Antenna

Our TH-1230 is a Passive Antenna, which is best for L & S & WIFI BAND communication transmission equipment, drone control data image transmission, wireless AP, PA signal transmission, interference... etc. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.



L Band & 2.4G & S Band Antenna



L Band & 2.4G & S Band Antenna



# TH-1230

### Electrical Properties

Parameter	Description
Frequency Band	1200~3000Mhz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.5:1

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	TNC connector (Male) FIXED
Antenna Dimensions	Ø16 x 140mm ±15
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

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## TH-1620

Our TH-1620 is a Passive Antenna for all types of GPS/GLONASS/Iridium devices. It is best for GPS/GLONASS/Iridium measurement, monitoring equipment, GPS/GLONASS/Iridium Tracker vehicle monitoring, dispatching equipment GPS/GLONASS/Iridium antenna... etc. The TPU hose has excellent high tension, high pulling force, strong and aging resistance characteristics, and is a mature environmentally friendly material.

**ADVANTAGES** High strength Good toughness Wear resistance Cold resistance



### ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band :	1570~1630Mhz ON Customer Machine GND
Nominal Impedance :	50 ohm
Polarization :	Vertical
Electrical Wave :	1 /4λ
Admitted Power radiation :	1W
V.S.W.R :	2.0:1
Antenna Peak Gain :	0 ~3dB
VNote: Gain includes the cable loss	

### MECHANICAL PROPERTIES

Parameter	Description
Antenna Type :	External Antenna
Material :	TPU50D ( & 3403 Glue )
Touch Type :	Screw Type
Connector Type :	SMA (Male)
Antenna Dimensions :	OD13.8 x 51.0mm±0.5
Antenna Color :	Black
Operating Temperature Range :	-30°C~+80°C
Storage Temperature Range :	-30°C~+80°C

Oil resistance Water resistanc Aging resistance Weather resistance **ADVANTAGES**

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# TH-1325C

L Band & 2.4G & S Band Antenna

## Electrical Properties

Parameter	Description
Frequency Band	1350-3000Mhz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.5:1

## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male)
Antenna Dimensions	Ø16 x 145mm ±3
Weight	45g
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C



Our MA-680D is a Passive Antenna, best for all types of L Band, 2.4G, and S Band communication transmission equipment, drone control data image transmission, wireless AP, PA signal transmission, interference... etc. The ASA has strong weather resistance and its anti-aging performance is more than 10 times that of ABS. The antenna can be bent in different angle for used. Please don't hesitate to email us if you have any questions.



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# RTK GNSS QUADRIFILAR Helix Active Antenna

## MA-680D



PHYSICAL CONDITION	
Constructions	ASA-UV radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions	50mm(Dia.) x 140mm(H)
Weight	200grams (w/o cable & connector)
Color	Standard in Ivory white
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory)
Mounting Adapters	Pole mount to 1"-14 UNS threaded mast
Base mounting	FB1 1"-14 UNS
Cable & Connector	
RF cable	SMA(M) +10 meter CFD200 +TNC(M)
Pulling strength	6 Kg @ 5sec. molded plastic on connector end for strain relief
Antenna Connector	SMA(F) or TNC(F)
Antenna Element	
SUPPORT Band	GPS:L1/L2/L5 : GLONASS : L1/L2/L3 BDS : B1/B2/B3 GALILEO:E1/E5/E6 & L-Band
Polarization	R.H.C.P. (Right Handed Circular Polarization)
peak Gain	≥ 2.5 dBi typical
Gain@10o Elevation	-1 dBi typical
Axial Ratio@zenith	≤ 2.0 dB
Azimuth coverage	360°
Output Impedance	50 ohm

## Specifications

Low Noise Amplifier	
Center Frequency	1164MHz~1263MHz & 1525MHz~1615MHz
Power Gain	35db +/-3db
Group delay variation	≤ 2.0 db
Noise Figure	1.5 tpy
Output VSWR	≤ 2.0:1
Supply Voltages	3~12V DC
Current Consumption	≤ 30mA (5V)
Output Impedance	50 ohm
Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency	1164MHz~1263MHz & 1525MHz~1615MHz
Gain	35db +/-3db
Noise Figure	2.0 max
Axial Ratio	2 dB
Azimuth coverage	360°
VSWR:	2.0 max
Output Impedance	50 ohm
Environmental	
Gain@10o Elevation	-1 dBi typical
Axial Ratio@zenith	≤ 2.0 dB
Azimuth coverage	360°
Output Impedance	50 ohm

### Advantage:

- Low noise figure
- Fully weather proof IPX7.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- Support GPS/GLONASS/BEIDOU/GALILEO and QZSS system

Tapered size and ruggedness design, demand of vehicle locating and marine navigation GNSS antenna that will sustain harsh environment. The internal use of QUADRIFILAR Helix Antenna allows for a wider signal reception angle.

The antenna system MA-680D is the integration of the high performance GNSS QUADRIFILAR Helix antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~12V DC antenna power it provides excellent signal amplification and out-band-rejection for that receiver.

### Features:

GNSS antenna with double threaded bolts and through holes for cable routing with course & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorized removal.

### Applications:

Geospatial Surveys / Single & Multiple frequencies RTK positioning / Vehicle Tracking / Security Surveillance / Precise Guidance / Machine Control / AVL

Please don't hesitate to email us if you have any questions.

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# FPC-1214



Our FPC-1214 is made to be best for drones, small AI devices, radio transmitters, walkie-talkies, communication equipment... etc. Its FPC L-Band antenna is able to be bent and placed inside a small radio device or embedded in small devices such as IoT modules, where circuit board space is at a premium. The flexible printed circuit board (FPC) antennas are flexible, compact, highly reliable, economical, and are widely used in the wireless industry. Please don't hesitate to email us if you have any questions.



## ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band :	1250~1400MHz (ON ABS shell)
Nominal Impedance :	50 ohm
Polarization :	Vertical
Return Loss :	Please See Data-1
V.S.W.R :	2.0:1

Note: Gain includes the cable loss

## MECHANICAL PROPERTIES

Parameter	Description
Antenna Type :	Internal Antenna
Antenna Material :	FPC
Touch Type :	3M Type
Connector Type :	IPEX OR other
Antenna Dimensions :	94×13.7×0.2mm
Antenna Color :	Black
Operating Temperature Range :	-30°C~+75°C
Storage Temperature Range :	-30°C~+75°C

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# TH-1300-TNC(M)

L Band Gooseneck Antenna

## Electrical Properties



## Mechanical Properties

Parameter	Description
Frequency Band	1250~1400MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
Return Loss	Please See Data-1
V.S.W.R	2.0 : 1
Gain	2.5db

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	TNC(Male)
Antenna Dimensions	315mm +/-5
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

Our TH-1300 is a Passive Antenna for all types of L Band & Iridium devices, which is best for short-range and long-range communication services with L Band radio positioning technology, industrial or scientific, medical or interference technology applications. The ASA is strong weather resistance and its anti-aging performance is more than 10 times of ABS. The gooseneck design allows the antenna to be bent and changed at any angle base on your preference. Please don't hesitate to email us if you have any questions.



# TH-1450G

1.45Ghz Antenna



## Electrical Properties

Parameter	Description
Frequency Band	1350~1550MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Peak gain	0dbi
Power	30W

## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	100mm ±5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C

Our TH-1450G is a Passive Antenna, which is best for L-Band communication transmission equipment, drone control data transmission, wireless AP, PA signal transmission or interference... etc. The ASA is strong weather resistance and its anti-aging performance with high temperature resistance. Please don't hesitate to email us if you have any questions.



**COW**  
TEMPERATURE ..... ON  
WATER ..... ON  
MILK ..... 90%





Our TH-14400 is a Passive Antenna for L & S & WIFI BAND communication transmission equipment, which is best for drone control data image transmission, wireless AP or PA signal transmission, interference... etc. The ASA is strong weather resistance and its anti-aging performance with high temperature resistance and the RG402 Flexible Cable can be easily bent to make the antenna angle. Please don't hesitate to email us if you have any questions.

# TH-1440



## ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band :	1.4~4.0GHz
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R :	3.0:1
Peak Gain :	0-4dbi
Power :	10W

## MECHANICAL PROPERTIES

Parameter	Description
Antenna Type :	External Antenna
Material:	ASA
Touch Type :	Screw Type
Connector Type :	SMA connector (Male) / RG402 Cable
Antenna Dimensions :	OD16 x158.5mm ±5
Weight :	40g
Antenna Color :	Black
Operating Temperature Range :	-40°C~+85°C
Storage Temperature Range :	-40°C~+85°C
Waterproof :	IP67

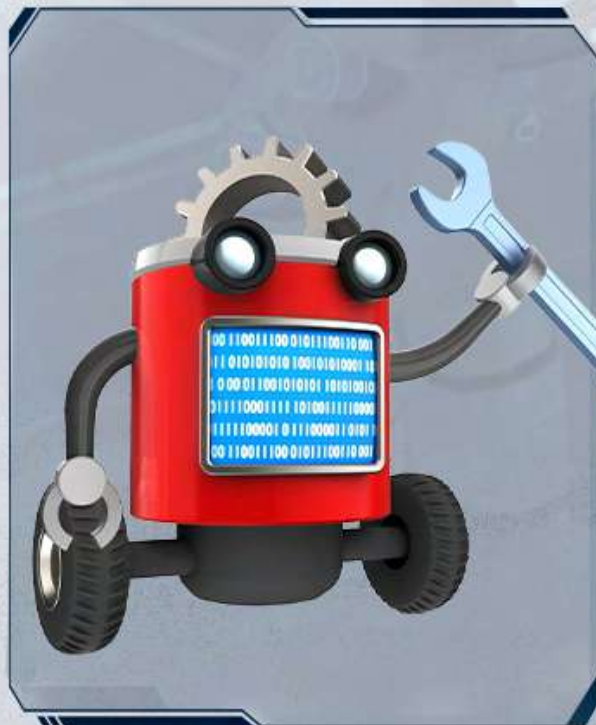
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# TH-1438E

Our TH-1438E is a Passive Antenna for L, S, and Wi-Fi Band communication transmission equipment. It's best for drone control data image transmission, wireless AP, PA signal transmission, interference, etc. The ASA is strong weather resistance and its anti-aging performance with high temperature resistance and the RG402 Flexible Cable can be easily bent to make the antenna angle. Please don't hesitate to email us if you have any questions.



## ELECTRICAL PROPERTIES

Parameter	Description
Frequency Band :	2.4~2.5GHz ON GND 100x100mm
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R :	2.0:1
Peak Gain :	1.5-4dbi
Power :	10W

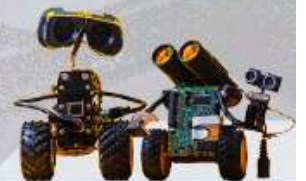
## MECHANICAL PROPERTIES

Parameter	Description
Antenna Type :	External Antenna
Material:	ASA
Touch Type :	Screw Type
Connector Type :	SMA connector (Male) / RG402 Cable
Antenna Dimensions :	OD16 x158.5mm ±5
Weight :	38g
Antenna Color :	Black
Operating Temperature Range :	-40°C~+85°C
Storage Temperature Range :	-40°C~+85°C
Waterproof :	IP67

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# 2.4/5G/6/7G Wifi-6 Antenna

Our TH-2458R is an Indoor Transceiver router Antenna. It provides Wi-Fi 6, which is 4 times more simultaneous connections to the router than Wi-Fi 5. With Wi-Fi 6 you can enjoy perfect 4K/8K images, play online games without lag, participate in online meetings and live broadcast on your home computer... etc. Wi-Fi 6 is like a larger highway with multiple branches at the same time, allowing you to reach your destination faster and smoother. Please don't hesitate to email us if you have any questions.



## TH-2458R

### Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85/6~7.125GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M) or RP-SMA(M)
Antenna Dimensions	22 x 210 mm ±3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C



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# 900Mhz & 2.4G Dual Band Antenna

Our TH-9024G is a Passive Antenna that's suitable for all types of 900 & 2.4Ghz communication transmission equipment, which is best for short-distance and long-distance communication services dual-band radio positioning, other technologies, industrial, scientific and medical, interference, other technical applications... etc. The ASA has strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.

## TH-9024G



### Electrical Properties

Parameter	Description
Frequency Band	902~928 MHz & 2.4~2.5Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Peak Gain	Low Band :1dbi & High Band :2.5dbi
Power	10W

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(Male)
Antenna Dimensions	205mm ±3
Antenna Color	Black
Weight	55g
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
water proof	IP67

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# TH-89i

## 2G/3G/4G/5G/6G Antenna



### Electrical Properties

Parameter	Description
Frequency Band	600~960/1710~2700/3300~3800/ 4000~5000 /5000~6000MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 180°(Male)
Antenna Dimensions	135.6mm±3
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C

Our TH-89i is a WIFI-6E (Wireless Fidelity) Indoor Transceiver router Antenna. Its WiFi 6 allows 4 times more simultaneous connections to the router compared with WiFi 5. You could use WiFi 6 to enjoy perfect 4K/8K images, play online games without lag, participate in online meetings and live broadcast on your home computer... and many challenging internet tasks. The Extended broadband coverage horizontal + vertical, which can divide each channel into smaller sub-channels, those sub-channels have smaller bandwidths that allows them to increase the signal range by up to 80% which leads to the result of fewer Wi-Fi dead spots and a network environment where Internet access is available everywhere. Wi-Fi 6 is like a larger highway with multiple branches at the same time, allowing you to reach your destination faster and smoother. Please don't hesitate to email us if you have any questions.



# TH-3360B

3.3~6Ghz Antenna



## Electrical Properties

Parameter	Description
Frequency Band	3300~6000MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	79mm ±3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

Our TH-3360B is a Passive Antenna that is best for all types of communication transmission equipment. Such as, UAV control data image transmission, wireless AP, PA signal transmission, interference... etc. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. It has relatively good high temperature resistance, with a fire rating of UL94-HB or above. Please don't hesitate to email us if you have any questions.



# TH-9024F

## 900 & 2.4G Band Flexible Cable Antenna

### Electrical Properties

Parameter	Description
Frequency Band	902~928 MHz & 2.4~2.5Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.5 : 1
Peak Gain	-1~ 2dbi
Power	10W

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male) / RG402 Cable
Antenna Dimensions	OD16 x158.5mm ±5
Weight	30g
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
Waterproof	IP67

Our TH-9024F is a competitive Passive Antenna that is suitable for all types of communication transmission equipment. You can apply it with UAV control data image transmission, wireless AP, PA signal transmission, interference... etc. The ASA is strong weather resistance and its anti-aging performance is more than 10 times that of ABS. It has relatively good high temperature resistance, with a fire rating of UL94-HB or above. Please don't hesitate to email us if you have any questions.

# TH-2458Q



## 2.4/5G/6/7G Wifi-6 Antenna

Our TH-2458Q is 2.4/5G/6/7G Wifi-6 Antenna. The Wi-Fi 6 allows 4 times more simultaneous connections to the router than Wi-Fi 5. It can easily overcome all the challenges that come with having too many connected devices. Wi-Fi 6 also provides to watch enjoyable 4K/8K images, play online games without lag, participate in online meetings and live broadcast on your home computer...etc. The

Extended broadband coverage (horizontal + vertical) can divide each channel into smaller sub-channels, these sub-channels have smaller bandwidths that allow them to increase the signal range by up to 80%. Wi-Fi 6 is like a larger highway with multiple branches at the same time, allowing you to reach your destination faster and smoother. Please don't hesitate to email us if you have any questions.

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M) or RP-SMA(M)
Antenna Dimensions	OD12.5 x 102.2 mm ±3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

### Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85/6~7.125GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1



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Our TH-2360 is a Passive Antenna is best for all types of communication transmission equipment. You can apply it with UAV control data image transmission, wireless AP or PA signal transmission, interference... etc. The ASA has relatively good high temperature resistance, with a fire rating of UL94-HB or above. The antenna can be bent at an angle for easy use. Please don't hesitate to email us if you have any questions.

# TH-2360

## 2.3~6Ghz Antenna



### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M)
Antenna Dimensions	OD16 x 114.5 mm ±3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

### Electrical Properties

Parameter	Description
Frequency Band	2.3~6GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1



# TH-162E

## Rubber AIS Antenna

Our TH-162E is the best for AIS Class B transponders and handheld devices. It is small size and easy to install and disassemble. Please don't hesitate to email us if you have any questions.

### Electrical Properties

Parameter	Description
Frequency Band	162MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Cover	TPR
Touch Type	Screw Type
Connector Type	SMA(Male)-Ni
Antenna Dimensions	189mm ±1
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C



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# TH-1400H



## 1.4Ghz Antenna

Our TH-1400H is a Passive Antenna that's suitable for L-Band communication transmission equipment. It's best for UAV control data transmission, wireless AP, PA signal transmission, interference... etc. The ASA has strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.

### Electrical Properties

Parameter	Description
Frequency Band	1350~1450MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	170mm ±5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C



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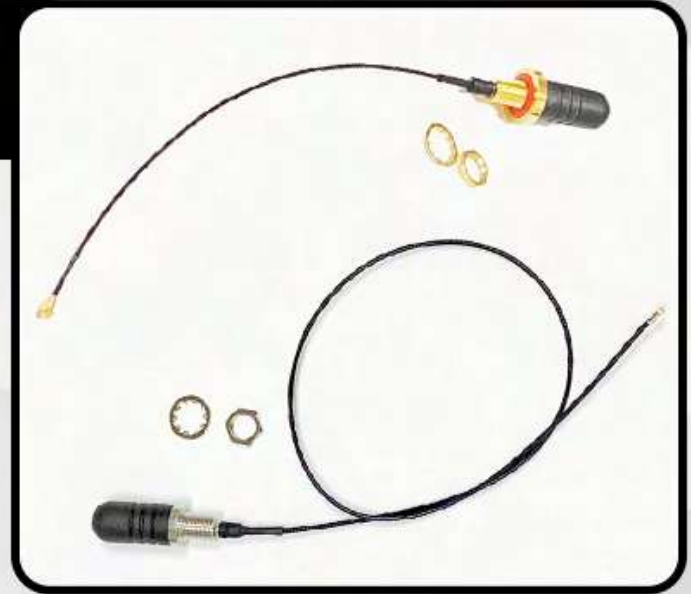
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## 2.4G ANTENNA TH-241B & TH-241C

Our TH-241B & TH-241C are 2.4~2.5G Wi-Fi, Bluetooth, Zigbee, Thread and Matter Transceiver PASSIVE Antenna. They're best for different devices, such as, smartphones, tablets, laptops, smart TVs, smart home devices...etc. They provide high-speed data transfer, allow users to access online services, browse the web, stream media and transfer files without the need for physical cables. Please don't hesitate to email us if you have any questions.



### Electrical Properties

Parameter	Description
Frequency Band :	2.4~2.5GHz ON GND 100x100mm
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R :	2.0:1

### Mechanical Properties

Parameter	Description
Antenna Type :	External Antenna
Antenna Material :	TPU
Touch Type :	Screw Type
Connector Type :	IPEX OR IPEX4
Antenna Dimensions :	Φ9.3 x 30.5mm +/-0.5
Antenna Color :	Black
Operating Temperature Range :	-30°C~+80°C
Storage Temperature Range :	-30°C~+80°C



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# SD-1000

## Specifications

Frequency range:	600-4800MHz
Peak Gain:	7 dBi
V.S.W.R:	2.0
Impedance:	50 OHMS $\pm 5\Omega$
Connector:	N Type Female
Dimension:	25cm(H)
Weight:	0.5Kg
Polarization:	Vertical
Power handling:	100W
Lighting Protection:	Direct Ground
Horizontal Beam Width:	360°
Vertical Beam Width:	25°
Radome color:	WHITE or BLACK
Radome material:	ABS
L-mounting:	Stainless steel
Mounting hardware(mm):	$\varnothing 30$ - $\varnothing 50$
Rated Wind Velocity(m/s):	55



Our SD-1000 is Omni Antenna. It's suitable for 2G/3G/4G/5G LTE router best for outdoor long-distance communication services, industrial, scientific, and environmental monitoring applications... etc. The ABS tube/ SUS tube/ U-Circlip KIT is to increase the weather resistance reliability of the antenna. Please don't hesitate to email us if you have any questions.



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# TH-90-RP-SMA(M) 2.4/5.8/6/7G



## Electrical Properties

Parameter	Description
Frequency Band :	2.4~2.5/5.1~5.8 / 5.95~7.125GHz
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R :	3.5:1
Gain	2.4~2.5G hz : 2.5dbi 5.1~5.8GHz : 3dbi 5.95~7.125GHz : 3dbi

## Mechanical Properties

Parameter	Description
Antenna Type :	External Antenna
Antenna Cover :	TPE
Touch Type :	Screw Type
Connector Type :	RP-SMA 180°(Male) for RG178 Cable
Antenna Dimensions :	108.5mm±1.5
Antenna Color :	Black
Operating Temperature Range :	-30°C~+80°C
Storage Temperature Range :	-30°C~+80°C



Our TH-90 is a WIFI-6E (Wireless Fidelity) Indoor Transceiver router Antenna. It's a life upgrade to use WiFi 6 to enjoy perfect 4K/8K images, not just that, playing online games will run more smoothly. It also extended broadband coverage (horizontal + vertical) and can divide each channel into smaller sub-channels. These sub-channels have smaller bandwidths, allowing them to increase the signal range by up to 80%. It provides fewer Wi-Fi dead spots and a network environment where Internet access is available everywhere. Wi-Fi 6 is like a larger highway with multiple branches at the same time, allowing you to reach your destination faster and smoother.

Please don't hesitate to email us if you have any questions.

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## Vehicle Locating & Marine Small GPS/GLONASS/GSM Antenna

### Advantage:

- Low noise figure
- Fully weather proof IPX7
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability



**MODEL: GAF-65G**

## Specifications:

Overall Performance: (antenna element, LNA & coax cable)	
Center Frequency:	1570 ~ 1610 Mhz
Gain:	At 90° vertical to sky 30 ± 4 dB (cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane
Noise Figure:	2.0 max.
Axial Ratio:	3 dB max.
Bandwidth:	10MHz min.
VSWR:	2.0 max.
Output Impedance:	50W ohm
Environmental	
Operating Temperature:	-40oC~ +85oC
Storage Temperature:	-40oC~ +80oC
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.
GSM / CDMA / 3G / 2.4G	
Frequency	850/900/1800/1900/2170/2.4G
VSWR	2.0
Impedence	50Ω
Cable type	RG174
Cable length	3M or 5M
Connector	SMA(M) or Others

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	60mm(Dia.) x 45mm(H)
Weight:	65grams (w/o cable & connector)
Color:	Standard in ivory white, other colours available upon request.
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory)
Cable & Connector	
RF cable:	RG174-3M or 5M
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector:	SMA(M) or Others
Antenna Element	
Center Frequency:	1575MHz & 1596-1610 Mhz
Polarization:	R.H.C.P. (Right Handed Circular Polarization)
Bandwidth:	10 MHz min. @S11 < -10 dB, 24MHz typ. @S11 < -8dB
Gain @ 10o Elevation:	2 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max.
Output Impedance:	50 ohm
Low Noise Amplifier	
Power Gain:	1570 Mhz : 29db typ 1610 Mhz : 29db typ
Bandwidth:	50 MHz min.
Noise Figure:	1.5 typ.
Filter:	SAW Filter 30 dB min @ fo 100MHz * fo=1590 MHz
Supply Voltages:	2.3~5.5V DC
Current Consumption:	2.5V : 6.6mA Typ. 3V : 10.6mA Typ. 4V : 14.6mA Typ. 5V : 20.6mA Typ.
Output Impedance:	50W ohm



Small size and ruggedness, demand of vehicle locating and marine navigation GPS/ GLONASS/GSM antenna that will sustain harsh environment.

Our GAF-650G is a GPS/GSM & LTE 2-in-1 combo antenna. It's the best for cars, trucks, buses, engineering vehicles, snowplows, farming vehicles... etc.



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# TH-9024C

## 900Mhz & 2.4G Dual Band Antenna



### Electrical Properties

Parameter	Description
Frequency Band	902~928 MHz & 2.4~2.5Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0 : 1
Peak Gain	Low Band :2dbi & High Band :3dbi
Power	30W

### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(Male)
Antenna Dimensions	220mm ±15
Antenna Color	Black
weight	70g
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
water proof	IP67



Our TH-9024C Passive Antenna is suitable for all types of 900 & 2.4Ghz communication transmission equipment. It can be applied for short-distance and long-distance communication services with dual-band radio positioning, industrial, scientific, medical, interference, and other technical applications...etc. The ASA has strong weather resistance and its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.

## 2.4G ANTENNA

# TH-241A

Our TH-241A is 2.4~2.5G Antenna. It can be applied to different devices such as smartphones, tablets, laptops, smart TVs and smart home devices, handheld radios... etc. It provides high-speed data transfer. It is small size and easy to hide. Please don't hesitate to email us if you have any questions.



### Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Frequency Band	TPU
Touch Type	Screw Type
Connector Type	SMA(Male) OR RP-SMA(M)
Antenna Dimensions	Φ9.3 x 33mm +/-0.5
Antenna Color	Black
Operating Temperature Range	-30°C~+80°C
Storage Temperature Range	-30°C~+80°C

### Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5GHz ON GND
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0:1



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Our TH-1090D is an OMNI ADSB ANTENNA, apply for ADS-B flight tracker devices to transmit technical data. The ADS-B is an automated process through which appropriately equipped aircraft transmit technical data such as position, flight direction and altitude. The ASA has relatively good high temperature resistance, with a fire rating of UL94-HB or above. Please don't hesitate to email us if you have any questions.

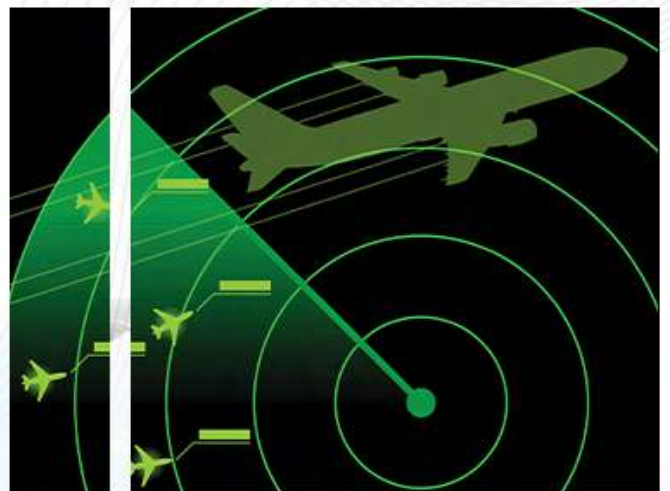
## Model : **TH-1090D**

### Electrical Properties

Parameter	Description
Frequency Band :	1090Mhz
Nominal Impedance :	50 ohm
Polarization :	Vertical
V.S.W.R. :	1.5:1
Power :	15W
Peak gain :	2dbi

### Mechanical Properties

Parameter	Description
Antenna Type :	External Antenna
Material :	ASA
Touch Type :	Screw Type
Connector Type :	SMA connector (Male)
Antenna Dimensions :	Ø16 x 155mm ±2
Antenna Color :	Black
Operating Temperature Range :	-30°C~+80°C
Storage Temperature Range :	-30°C~+80°C



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# TH - 4060

Our TH-4060 is a Passive Antenna that's suitable for all types of communication transmission equipment. It's best for UAV control data image transmission, wireless AP, PA signal transmission or interference... etc. The ASA has strong weather resistance plus the RG402 flexible cable can easily be bend. Please don't hesitate to email us if you have any questions.



## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male) / RG402 Cable
Antenna Dimensions	OD16 x133.5mm ±3
Weight	30g
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
Waterproof	IP67

## Electrical Properties

Parameter	Description
Frequency Band	4000~6000MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

**Electrical Properties**

Parameter	Description
Frequency Band	1350~3000Mhz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.5:1

**L Band & 2.4G & S Band Antenna**

**MODEL: TH-1325B**

**Mechanical Properties**

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male)
Antenna Dimensions	Ø16 x 155mm ±3
Weight	35g
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C



Our TH-1325B is a Passive Antenna that's suitable for all types of L, Wi-Fi, and S-Band communication transmission equipment. It's best for UAV control data transmission, wireless AP, PA signal transmission, interference... etc. The ASA has strong weather resistance. Please don't hesitate to email us if you have any questions.



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# TH-3360 / TH-4000

Our TH-3360 and TH-4000 are Passive Antenna that are suitable for all types of 3~6GHZ RADIO and RF Transponder equipment. Best for long and short distance communication services and technical applications such as industrial, scientific, medical, monitoring, data transmission, and interference... etc. The ASA is strong weather resistance. Please don't hesitate to email us if you have any questions.



## Electrical Properties

Parameter	Description	
Model :	TH-3360	TH-4000
Frequency Band :	3300~6000Mhz	3000~5500Mhz
Nominal Impedance::	50 ohm	
Polarization :	Vertical	
V.S.W.R.:	2.5:1	

## Mechanical Properties

Parameter	Description	
Antenna Type :	External Antenna	
Material :	ASA	
Touch Type :	Screw Type	
Connector Type :	TNC connector (Male)	
Antenna Dimensions :	Ø16 x 193mm ±15	Ø16 x 233mm ±15
Antenna Color :	Black	
Operating Temperature Range :	-40°C~+85°C	
Storage Temperature Range :	-40°C~+85°C	



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# TH-1250A / TH-1626 / TH-1800



Our TH-1250A, TH-1626, and TH-1800 are Passive Antenna suitable for all types of L Band & Iridium equipment.

They're best for short-distance and long-distance communication services. Such as, technologies, industrial, scientific, medical, interference... etc. We have ASA as the shells, which has strong weather resistance and its anti-aging performance. ASA has relatively good high temperature resistance, with a fire rating of UL94-HB or above. Please don't hesitate to email us if you have any questions.

Model :	TH-1250A	TH-1626J	TH-1800
Frequency :	1.2~1.35 GHz & 1.5~1.65Ghz	1.6~1.65 GHz	1800~1880 MHz
Polarization :	Linear omni		
Gain :	3dbi		
Connector :	N(Male)		
V.S.W.R :	2.0:1		
Dimensions :	370mm ±15		
Color :	Black		
Operating Temperature Range :	-30°C~+80°C		
Storage Temperature Range :	-30°C~+80°C		



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# TH-1438B



Our TH-1438B is a Passive Antenna that's suitable for all types of L & S-Band communication transmission equipment. It's perfect for UAV control data transmission or wireless AP or PA signal transmission or interference, etc. The ASA has strong weather resistance, its anti-aging performance is more than 10 times that of ABS. Please don't hesitate to email us if you have any questions.



## Electrical Properties

Parameter	Description
Frequency Band	1425~1450 & 2400~2500MHz (VSWR:1.5:1) 1350~1500 & 2250~3000MHz (VSWR:2.0:1)
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

## Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	SMA connector (Male)
Antenna Dimensions	Ø16 x 155mm ±2
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C



# TH-868G / TH-915J / TH-942



Model :	TH-868G	TH-915J	TH-942
Frequency :	868 MHz	902~928 MHz	920~965 MHz
Polarization :	Linear omni		
Gain :	3dbi		
Connector :	N(Male)		
V.S.W.R :	2.0:1		
Dimensions :	370mm ±15		
Color :	Black		
Operating Temperature Range :	-30°C~+80°C		
Storage Temperature Range :	-30°C~+80°C		



## Our TH-868G, TH-915J, and TH-942 are Passive Antenna.

They're suitable for all types of RFID, Sigfox, ISM, LoRa... equipment. Especially good for short/long-distance communication services that's related to IoT/RFID/radio positioning, industrial, scientific, medical (ISM), interference, and other technology applications. The ASA has strong weather resistance, its anti-aging performance is more than 10 times that of ABS. Our TH-868G, TH-915J, and TH-942 with gooseneck design allows the antenna to be bent and changed. Please don't hesitate to email us if you have any questions.



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# GA-240 / GA-2575 GA-2625 / GA-2680

Outdoor 2.4G or S-BAND Passive Antenna



Model	GA-240	GA-2575	GA-2625	GA-2680
Frequency	2400-2500MHz	2530~2625MHz	2560~2690MHz	2670~2690MHz
Polarization	R.H.C.P			
Gain	4~5dbi			
Connector	SMA(F)			
Dimensions	OD60x18.5mm			
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).			
Radome	ASA-UV			
Waterproof	IPX7			
Operating Temperature	-40℃~85℃			
Storage Temperature	-40℃~85℃			

Our GA-240 / GA-2575 / GA-2625 / GA-2680 are suitable for cars, trucks, buses, engineering vehicles, snowplows... special vehicles. The radomes are made from ASA-UV polyester while the base is from Zinc alloy, which is mechanically resistant and corrosion-resistant. They're small and ruggedness. They demand vehicle locating and marine navigation WIFI or S-Band Antenna that will sustain harsh environment. Don't hesitate to email us if you have any questions.

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**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer

# TH-460G



## Electrical Properties

Parameter	Description
Frequency Band :	450~470 MHz ON GND
Nominal Impedance :	50 ohm
Polarization :	Vertical
Electrical Wave :	Dipole
Return Loss :	Please See Data-1
V.S.W.R :	2.5 : 1
Gain :	3db
Power :	10W

## Mechanical Properties

Parameter	Description
Antenna Type :	External Antenna
Touch Type :	Screw Type
Connector Type :	TNC (Male)
Antenna Dimensions :	190mm ±5
Antenna Color :	Black
Operating Temperature Range :	-40°C~+80°C
Storage Temperature Range :	-40°C~+80°C



Our TH-460G is a Passive Antenna. It's suitable for all types of UHF communication transmission equipment and ADL Vantage USE. Perfect for short/long-distance communication services, industrial, scientific, and medical (ISM) applications. The ASA has strong weather resistance and its anti-aging performance is more than 10 times of ABS. Please don't hesitate to email us if you have any questions.

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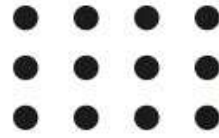
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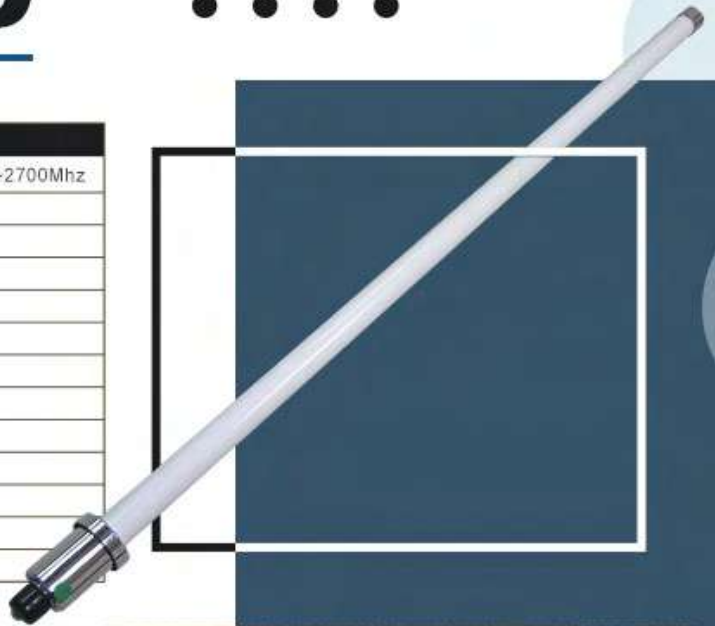
Website: www.bjtek.com.tw & www.antennaking.com.tw

B to B: www.bjnav.com & www.bjnav.com.tw

# GSM-100



Specifications	
Frequency range:	690~960/1710~1990/1990~2170/2300~2700Mhz
Gain:	7~9dBi
V.S.W.R:	<2.0
Impedence:	50 ohm
Connector:	N Type Female
Dimension:	756mm +/-10 x OD20mm
Weight:	0.76Kg
Polarization :	vertical
Power handling :	50W
Colour :	white
Rated wind velocity :	60m/s
Working Temperature :	-40~85℃
Lightning Protection :	Direct Ground



Our GSM-100 is a Base Station Passive Antenna. It's suitable for 2G/3G/4G /LTE router long-distance communication services and industrial or scientific and environmental monitoring... etc. We use Fiber tube, SUS tube, and U-Circlip KIT to increase the reliability of antenna weather resistance. Please don't hesitate to email us if you have any questions.



**OUTSIDE GSM/4G/LTE ANTENNA**  
MODEL: GSM-100  
Fiber Glass Antenna  
690/850/900/1800/1900/2170/2300/2690Mhz

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# MT-168

## AIS Vessel Tracker / Buoy Tracker

### HIGH-QUALITY AIS TRANSMITTER

High-Sensitivity GPS and efficient AIS communication technology help you manage your vessels by immediate addressing and SOG, install on the offshore vessel, lake boat for collision avoidance. Please don't hesitate to email us if you have any questions.

### Features:

- Transmission range: 10-16 NM
- Operating time: Up to 20 days (reporting interval: 3 minutes)
- Easy to install and track
- Interval setting: Every 15,30 seconds or 1-6 minutes
- High quality battery
- Weather-proof and high-sensitivity antenna

Specification	
Model	MT-168
Quad Band	161.975 MHz / 162.025 MHz
Baud Rate	9600 b/s+50ppm(GMSK)
Bandwidth	25 kHz
Output Power	2 W (can be customized)
Transmission Range	10~16NM
Antenna	External 1m VHF antenna
GNSS Chipset	ublox
GPS Receiving Channels	72 channels
Tracking Sensitivity	-160 dbm
Position Accuracy	2.5 m CEP
Battery	12.6V 3200 mAh
Battery Type	Rechargeable Li-ion battery
Operating Time	Up to 20days (reporting interval: 3min)
I/O port	5 pin waterproof connector
Size (Main Body)	21 cm x 9.3cm
Weight (Main Body)	530g
Waterproof	IPX8
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~70°C
LED Indication	
Flashing 1~10 sec (red & green)	Battery level 10~100%
Fast Flashing 10 sec (red)	Low power warning
Flashing / sec (green)	GPS signal searching
Flashing 3 sec (red & green)	AIS data transmitting





**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer

# TH-315F / TH-435D

## VHF/UHF Gooseneck Antenna



Our TH315F & TH-435D are Passive Antenna that are suitable for all kinds of UHF communication transmission equipment. Such as UHF radio communication or interference. They are both Gooseneck design that allows the antenna to be bent. The ASA plastic has a strong anti-ultraviolet function and is used for outdoor injection molding products. Please don't hesitate to email us if you have any questions.

Model	TH-315F	TH435D
Frequency	315MHz	400~470MHz
Polarization	Linear omni	
Gain	3dbi	
Connector	N(Male)	
V.S.W.R.	2.0:1	
Dimensions	370mm ±15	
Color	Black	
Operating Temperature Range	-30°C~+80°C	
Storage Temperature Range	-30°C~+80°C	



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# MA-700i

Our MA-700i is a passive antenna is for use with Iridium satellite phones and the Iridium GO!

It offers superior performance with all Iridium series satellite phones for car on Off-Road/Alpine/Valley...Open Environment environments. This series of Iridium antennas is specifically designed to provide excellent coverage in the 1610 to 1630 MHz range. The radomes are made from ASA-UV polyester. Please don't hesitate to email us if you have any questions.



Antenna Element	
Center Frequency	1610-1630Mhz
Polarization	R.H.C.P. (Right Handed Circular Polarization)
Absolute Gain@Zenith	+5 dBi typical Based on 70×70mm ground plane
Axial Ratio	3 dB max
Output VSWR	1.5:1 Typ
Output Impedance	50 ohm
Environmental Conditions	
Operating Temperature	-30oC to +80oC
Storage Temperature	-40oC to +100oC
Relative Humidity	40% to 95% non-condensing
Water Resistance	100% waterproof

Physical Constructions	
Dimensions	Antenna : 90.8mm(Dia.) × 109mm(H)
Weight	Weight 150 grams (without cable)
Standard Mounting	Concinnity and Solid design
Cable & Connector	
RF Cable	-45CM-N(F)
Cable Pulling strength	12Kg for 5sec.
Connector available	N(F) (standard) SMA(F) / TNC(F) other types (optional)



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# TH-50P / TH-100P

Our TH-50P & TH-100P are Passive Antenna. They are suitable for technical applications. Such as, AM/FM/VHF/UHF radio communication or interference. The ASA plastic we apply for our TH-50P & TH-100P has a strong anti-ultraviolet function, and is used for outdoor injection molding products and occasions in direct contact with sunlight. Don't hesitate to email us if you have any questions.



**AM/FM/VHF/UHF Gooseneck Antenna**

Model	TH-50P	TH100P
Frequency	300K~400MHz	50M~520MHz
Polarization	Linear omni	
Gain	3dbi	
Connector	N(Male)	
V.S.W.R	2.0:1	
Dimensions	370mm ±15	
Color	Black	
Material	ASA + Metal Gooseneck	
Operating Temperature Range	-30°C~+80°C	
Storage Temperature Range	-30°C~+80°C	



## Outdoor/Indoor 2.4 / 5.8G Antenna WA-680L



Our WA-680L is an outdoor/ indoor dual frequency Wi-Fi sharer Antenna. It can be used for urban smart street lamp control, image transmission, traffic status data update...

The ASA plastic we use for our WA-680L has a strong anti-ultraviolet function, and perfect for outdoor injection molding products and occasions under direct contact with sunlight. ASA has strong weather resistance, and its anti-aging. Also, ASA has relatively good high temperature resistance, and the fire rating is above UL94-HB. Don't hesitate to email us if you have any questions.

PHYSICAL CONDITION	
Constructions	ASA-UV + Zinc alloy-Ni
Dimensions	60mm(Dia.) x 140mm(H)
Weight	280grams (w/o cable & connector).
Color	Standard in ivory white, other colours available upon request.
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).
Base mounting	FB9 SUS316 L- mounting
Cable & Connector	
RF cable	SMA(M) +5meter +SMA(M) (standard) other length (optional)
Pulling strength	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	SMA(F)



Antenna Element	
Center Frequency	2400~2500 / 5100~5850 MHz
Polarization	Linear
Absolute Gain @ Zenith	1~4 dBi without cable
Output VSWR	3.0 max
Output Impedance	50 ohm

Environmental	
Operating Temperature	-40oC~ +85oC.
Storage Temperature	-40oC~ +85oC.
Relative Humidity	95% non-condensing.
Water Resistance	100% waterproof, IPX7



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**CAR GSM/LTE/5G Passive Antenna**

# TC-270B



## Inside Glass Antenna for 2G/3G/4G/5G(sub-6)/Beidou/GPS/GLONASS

Our TC-270B is a Passive Antenna for various GSM/GPS/GLONASS/3G/LTE/5G or BN-IOT devices. It can be applied with 2G/3G/4G/5G measurement monitoring equipment or GPS Tracker vehicle monitoring dispatch equipment BN-IOT antenna or BN-IOT equipment data transmission update.

The ASA plastic hose we have for our TC-270B has a strong anti-ultraviolet function, best for outdoor injection molding products and direct sunlight. ASA has strong weather resistance, and its anti-aging performance is more than 10 times that of ABS. Don't hesitate to email us if you have any questions.

### Electrical Properties

Parameter	Description
Frequency Band	698~960MHz / 1550~1615Mhz 1710~2700Mhz / 3.3~5Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
V.S.W.R	4.0:1
Antenna Peak Gain	0~3.0dBi
Note: Gain includes the cable loss	

### Mechanical Properties

Parameter	Description
Antenna Material	ASA
Connector Type	SMA(M)
TouchType	3M stick cloth Type
Antenna Type	Inside Glass Antenna
Antenna Dimensions	115.1 x 55.5 mm ± 5
Antenna Cable Total Length	CFD200-3000mm ± 20 ( RF200/NFC200/S200... use same specifications cable )
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C
Waterproof	IP67



# TH-82

## GSM/GPS/GLONASS/3G/LTE Passive Antenna

Our TH-82 is a Passive Antenna for various GSM/GPS/GLONASS/3G/LTE devices. It's can be applied in 2G/3G/4G measurement monitoring equipment, GPS Tracker vehicle monitoring dispatch equipment, and other equipment data transmission update. The TPU provides high strength, good toughness, wear resistance, oil resistance, aging resistance..., etc. Don't hesitate to email us if you have any questions.



### Electrical Properties

Parameter	Description
Frequency Band	LTE: 800 · 900 · 1700 · 2000 · 2500MHz GPS: 1575 ,1602MHz ON Customer Machine GND
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /4λ
Admitted Power radiation	1W
V.S.W.R	3.5:1
Antenna Peak Gain	0 ~3dB
Note: Gain includes the cable loss	

### Mechanical Properties

Parameter	Description
AntennaType	External Antenna
Material	TPU50D ( & 3403 Glue )
TouchType	ScrewType
Connector Type	SMA (Male) , Center PIN offset +/-0.08mm
Antenna Dimensions	OD13.8 x 51.0mm±0.5
Antenna Color	Black
Operating TemperatureRange	-30°C~+70°C
Storage TemperatureRange	-35°C~+80°C



# MA-620G / MA-650G / MA-680G

## Vehicle Locating & Marine Small GPS/ GLONASS Antenna

Our MA-620G / MA-680G / MA-650G-TNC(F) are suitable for cars, trucks, buses, engineering vehicles, snowplows...special vehicles. The radomes are made from ASA-UV polyester while the base is from Zinc alloy, which is mechanically resistant and corrosion-resistant. They're small and ruggedness. They demand vehicle locating and marine navigation GPS/GLONASS Antenna that will sustain harsh environment. Don't hesitate to email us if you have any questions.



			
Model	MA-620G	MA-650G	MA-680G
Frequency	1575-1602Mhz		
Polarization	R.H.C.P		
Gain	29db		
Voltages	2.3~5.5V		
Connector	TNC(F)		
Optional Connector	SMA(F)		
Dimensions	OD60x70mm	OD60x95mm	OD60x140mm
Mounting	FB1 Base mounting 1"-14 UNS threaded mast		
Radome	ASA-UV		
Waterproof	IPX7		



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# TH-900i

## RFID/Sigfox/ISM/LoRaUHF Antenna

Our TH-900i is a Passive Antenna for all kinds of RFID/Sigfox/ISM/LoRa...equipment. It's suitable for short-range and long-range communication services. Also, industrial, scientific, and medical (ISM) applications related to technologies such as IoT/RFID/radiolocation. We use ASA plastic, which has a strong anti-ultraviolet function, which is usually for outdoor injection molding products. ASA has strong weather resistance its anti-aging performance is more than 10 times than ABS. Don't hesitate to email us if you have any questions.



### Electrical Properties

Parameter	Description
Frequency Band	860-960MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Gain	3db

### Mechanical Properties

Parameter	Description
AntennaType	External Antenna
Material	ASA-UV
TouchType	ScrewType
Connector Type	N (M)
Antenna Dimensions	91.5mm
AntennaColor	91.5mm
Operating TemperatureRange	-40°C~+80°C
Storage TemperatureRange	-40°C~+80°C
Waterproof	IPX7



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# WA-62

Our WA-62 is WIFI (Wireless Fidelity) Outdoor/Indoor dual frequency Transceiver Antenna. The shell is ASA plastic, which has a strong anti-ultraviolet function and is used for outdoor injection molding products. ASA has strong weather resistance, and its anti-aging performance is more than 10 times of ABS. ASA has relatively good high temperature resistance, and the fire rating is above UL94-HB. Don't hesitate to email us if you have any questions.



## PHYSICAL CONDITION

Constructions	ASA-UV radome , detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof.
Dimensions	60mm(Dia.) x 18.5mm(H)
Weight	135grams (w/o cable & connector).
Color	Standard in ivory white, other colours available upon request.
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).

## Cable & Connector

RF cable	RG174-1M other length (optional)
Pulling strength	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	SMA(M) or other

## Antenna Element

Center Frequency	2400~2500 / 5100~5850 MHz
Polarization	Linear
Peak Gain	4 dBi
VSWR	2.0 max (ON GND 320 x 240mm )
Impedance	50 Ω

## Environmental

Operating Temperature	-40oC~ +85oC.
Storage Temperature	-40oC~ +85oC.
Relative Humidity	95% non-condensing.
Water Resistance	100% waterproof. IPX8

Lga Outdoor  
Indoor 2.4  
5.8 G Antenna



# GA-90G

## GPS/GLONASS ANTENNA

### Advantage

- Gain: 27 dB
- Ultra-high sensitivity
- Voltage: 2.5~5V DC
- OD25mm x 55mm
- ABS PA777D OR ASA Impact-resistant plastic
- Connector : N(M) or SMA(M)
- Compact Construction/ Low Profile/ Fully Waterproof IPX7
- Magnet and Screw Mount Base
- Excellent Temperature Stability
- Low Noise Figure
- High Sensitivity

### Applications

- Automobile GPS/GLONASS
- Bluetooth Receiver
- Car Tracking Navigation System
- AVL / Fleet Management Systems
- External Antenna for Handheld GPS/GLONASS
- External Antenna for PDA Navigator



**GA-90G** is the most compact GPS/GLONASS antenna module currently available on the market, thanks to our cutting-edge technology that makes the device the tiniest possible without sacrificing performance. With comprehensive coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment. Featuring diminutive but substantial enclosure plus unparalleled performance, GA-90G is compatible with almost every GPS/GLONASS receiver model available on the market and provides a perfect alternative for a vast range of GPS/GLONASS applications in the fields of AVL, vehicle navigation, aviation and military. Don't hesitate to email us if you have any questions.



# GA-62G / GA-65G / GA-68G

## Vehicle Locating & Marine Small GPS/ GLONASS Antenna

Our GA-62G / GA-68G / GA-65G-TNC(F) are suitable for cars, trucks, buses, engineering vehicles, snowplows...special vehicles. The radomes are made from ASA-UV polyester while the base is from Zinc alloy, which is mechanically resistant and corrosion-resistant. They're small and ruggedness. They demand vehicle locating and marine navigation GPS/GLONASS Antenna that will sustain harsh environment. Don't hesitate to email us if you have any questions.



Model	GA-62G	GA-65G	GA-68G
Frequency	1575-1602Mhz		
Polarization	R.H.C.P		
Gain	29db		
Voltages	2.3~5.5V		
Connector	TNC(F)		
Optional Connector	SMA(F)		
Dimensions	OD60x18.5mm	OD60x45mm	OD60x90mm
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).		
Radome	ASA-UV		
Waterproof	IPX7		





# TH80B-SMA90

## GSM/3G/LTE Antenna

Our TH80B-SMA90 antenna is used in 2G/3G/4G measurement monitoring or GPS Tracker vehicle monitoring dispatch or other data transmission update.

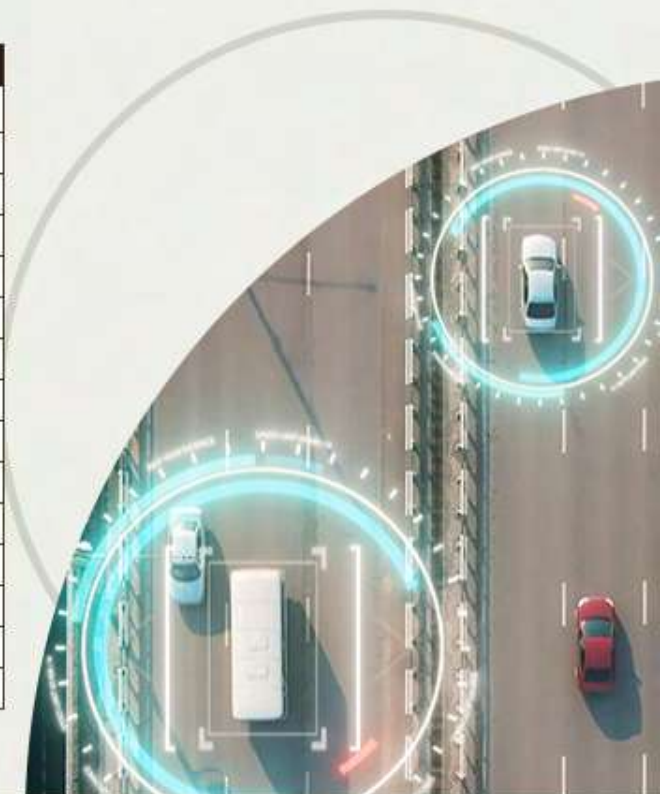
### Advantage:

- TPU rubber hose · High strength · Good toughness · Wear resistance · Cold resistance · Oil resistance · Water resistance · Aging resistance · Weather resistance... etc.
- ASA plastic hose has a strong anti-ultraviolet function. It is used for outdoor injection molding products and direct sunlight; its anti-aging performance is more than 10 times that of ABS. ASA has relatively good high temperature resistance with fire rating above UL94-HB.

Don't hesitate to email us if you have any questions.



Parameter	Description
Frequency Band	698 ~960/1710~2690MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	6.0 : 1 (ON GND 215x126x18mm )
Peak Gain	-3~ 3.7 dbi
Note: Gain includes the cable loss	
Antenna Type	External Antenna
Antenna Material	TPU OR ASA
Touch Type	Screw Type
Connector Type	SMA 90° (Male)
Antenna Dimensions	57.1mm ±0.3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C



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# MUA-100A

## OUTSIDE UHF BASE ANTENNA

### Advantage:

- Use Fiber tube & SUS tube & U-Circlip KIT to increase the weatherability reliability of the antenna.
- The antenna has a bandwidth of 130MHz and can be used in UHF communication transmission.

Our MUA-100A is a base station passive antenna for various UHF communication transmission use. It is suitable for short-range and long-range communication services, industrial or scientific and medical (ISM) applications especially with technologies such as IoT/ RFID/ Radiolocation/ Radiocommunication/ UAV...etc. BJTEK is very profession in making UHF BASE Antenna. Don't feel hesitate to inquire us if you have any question about it.

Parameter	Description
ANTENNA TYPE:	Base Antenna
FREQUENCY:	380~512MHz
IMPEDANCE:	50 Ohm
POLARISATION:	Verticle
SWR:	2.0:1
MAX.POWER:	50W
Rated wind velocity:	60m/s
MATERIALS:	Fiber
COLOR:	White
TOTAL HEIGHT:	910m/m ±10
WEIGHT:	1Kg

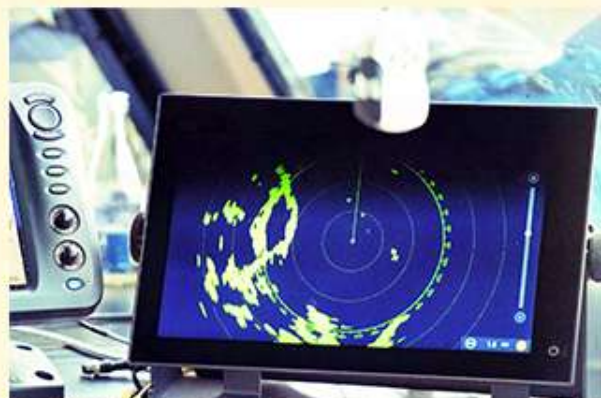


# GVA-150B

## Drills a hole fixed GPS /VHF Antenna

AIS system & boat manages the double frequency GPS/VHF Antenna

Our GVA-150B is a Combo GPS/VHF antenna for AIS Class B transponders which makes for a super quick and high performance installation and perfect for mining area or car GPS/VHF walkie-talkie devices and Marine AIS Class B transponders or devices. The GPS/VHF combination mounts have an integrated Right Hand Circular Polarized (RHCP) GNSS antenna and VHF whip antenna. Feel free to Inquire us if you have any question about it.



Parameter	Description
Constructions:	Polycarbonate radome, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	54.7mm(Dia.) x 27.5mm(H)
Weight:	240grams (with 5M cable & connector).
Center Frequency:	1575.42 MHz
Mounting:	Bulkhead mount with 0.47 inch threaded wing nut.
Center Frequency:	1575.42 MHz +/-1.023 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Absolute Gain @ Zenith:	+5 dBi typical.
Gain @ 10o Elevation:	-1 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Power Gain:	28db +/-4.5db
Bandwidth:	10MHz min.
Noise Figure:	2.0 max.
Storage Temperature:	-40oC~ +80oC.
Relative Humidity:	95% non-condensing.



# TH-900J

RFID/Sigfox/ISM/LoRa UHF Passive Antenna



Our TH-900J Passive Antenna is for all kinds of RFID/Sigfox/ISM/LoRa ... etc. equipment. It's suitable for short/long-range communication services, industrial, scientific, medical (ISM) applications with technologies such as IoT/RFID/radiolocation. The ASA plastic we use for our TH-900J has super anti-ultraviolet function. It is used for outdoor and outdoor injection molding products. It is resistant to ultraviolet rays and does not fade or yellow. ASA has strong weather resistance, and its anti-aging performance. Feel free to contact us if you have more questions about TH-900J. BJTEK aim to answer you all your inquiries.



Parameter	Description
Frequency Band	698~960GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /4λ
Admitted Power radiation	1W
V.S.W.R	3.0:1 Max
Antenna Gain	0~1.5 dB
Antenna Type	External Antenna
Material	ASA-UV (UL94-HB)
Touch Type	Screw Type
Connector Type	SMA (Male)
Antenna Dimensions	OD12.5 x 69.7mm±1
Antenna Color	Black
Operating Temperature Range	-40°C~+80°C
Storage Temperature Range	-40°C~+80°C
Waterproof	IPX7 (Must match the silicone pad - optional)



**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer



# TH-450E

## UHF Omni Antenna

Our TH-450 is suitable for short-range and long-range communication services and industrial or scientific and medical (ISM) applications. It's made with ASA plastic, super anti-ultraviolet function. It is for outdoor and outdoor injection molding products. It is resistant to ultraviolet rays. ASA has strong weather resistance; its anti-aging performance is more than 10 times of ABS. ASA has good high temperature resistance the fire rating is above UL94-HB. Inquire us if you have any question about it.

Parameter	Description
Frequency Band	440~460MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1
Power	50-100W
Gain	2db
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N Connector (Male)
Antenna Dimensions	220mm ±5
Antenna Color	Black
Operating Temperature Range	-30°C~+80°C
Storage Temperature Range	-30°C~+80°C



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# Iridium Passive Antenna



## GA-621

Antenna Size : 60mm(Dia) × 18.5mm(H)

Antenna Element	
Center Frequency	1610-1630Mhz
Polarization	R.H.C.P. (Right Handed Circular Polarization)
Absolute Gain @ Zenith	+5 dBi typical Based on 70×70mm ground plane
Axial Ratio	3 dB max.
Output VSWR	1.5:1 Typ.
Output Impedance	50 ohm
Environmental Conditions	
Operating Temperature	-30°C to +80°C
Storage Temperature	-40°C to +100°C
Relative Humidity	40% to 95% non-condensing
Water Resistance	100% waterproof
Output VSWR	1.5:1 Typ.
Output Impedance	50 ohm
Physical Constructions	
Dimensions	Antenna : 60mm(Dia.) × 18.5mm(H)
Weight	65 grams (without cable)
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).
Cable & Connector	
RF Cable	Without cable
Cable Pulling strength	12Kg for 5sec.
Connector available	SMA(F) / TNC(F)

This series of Iridium antennas is specifically designed to provide excellent coverage in the 1610 to 1630 MHz range.



# Iridium Passive Antenna GA-65I

Antenna Size : 60mm(Dia) × 45mm(H)



This series of Iridium antennas is specifically designed to provide excellent coverage in the 1610 to 1630 MHz range.

Antenna Element		Environmental Conditions	
Center Frequency	1610-1630Mhz	Operating Temperature	-45°C to +85°C
Polarization	R.H.C.P. (Right Handed Circular Polarization)	Storage Temperature	-45°C to +85°C
		Relative Humidity	40% to 95% non-condensing
Absolute Gain @ Zenith	+5 dBi typical Based on 70×70mm ground plane	Water Resistance	100% waterproof
		Cable & Connector	
Axial Ratio	3 dB max.	RF Cable	Without cable
Output VSWR	2.0:1 Max.	Cable Pulling strength	12Kg for 5sec.
Output Impedance	50 ohm	Connector available	SMA(F) / TNC(F)
Physical Constructions			
Dimensions	Antenna : 60mm(Dia.) × 45mm(H)		
Weight	65 grams (without cable)		
Mounting	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).		

## Vehicle Locating Small GPS/GSM/FM Antenna



GPS/GSM/FM 3-in-1 Combo Antenna GFA-65 integrates a high performance GPS patch antenna and low noise amplifier into a state-of-the-art low height/very compact/completely waterproof antenna signal enclosure. When connected to a GPS receiver with +2.5~ 5.5V DC antenna power supply, it can provide excellent signal amplification and out-of-band rejection for that receiver, while having GSM/3G & FM passive Antenna allows you to use both, If you have any questions about this, please feel free to contact us.

Constructions: Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof

Dimension: 60mm (Dia.) x 45mm (H)

Weight: 210 grams

RF cable: RG174 -1.5M

GPS Center Frequency: 1575.42 MHz +/-1.023 MHz

Polarization: R.H.C.P. (Right Handed Circular Polarization)

Operating Temperature: -40°C~ +85°C.

Relative Humidity: 95% non-condensing.

Water Resistance: 100% waterproof.

### Advantage

- Low noise figure
- Fully weather proof IPX7
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability

	GSM / CDMA / 3G	FM
Frequency	824~960/1710~2170MHZ	88-108Mhz(fo:98Mhz)
V.S.W.R	3.5	Fo: 2.0
Impedence	50Ω	
Cable type	RG174	RG174
Cable length	1.5M	1.5M
Connector	SMA (M)	SMA (M)



## GPS Receiver & Locator

# GM-62U

### SPEC:

72 channel Ublox 8 positioning engine.  
Ultra-high sensitivity to -167 dBm.  
Support maximum 10Hz Update rate  
GPS L1C/A, SBAS L1C/A, QZSS L1C/A and Galileo E1B/support.  
Supports GPS/QZSS L1 C/A, GLONASS L10F, or BeiDou B1 SBAS L1 C/A: WAAS, EGNOS.  
Supports UART or RS232 interface.  
Water proof IP67

GM62U is a Mini Marine GPS receiver build-in well-known U-blox8 chipset. GM62U provides customer high position, velocity and time accuracy performances as well as high sensitivity and tracking capabilities. Customers benefit from the strength of both companies. Thanks to the low power consumption technology, the GPS-Mouse receiver is ideal for many portable applications such as PDA, Tablet PC, smart phone etc. Feel free to inquire us if you have any questions.

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## GSM/GPS/GLONASS/3G/LTE Passive Antenna

### Advantage:

- Torque is greater than 20kg
- Pull is greater than 15kg

Our TH-81K is made with Hose TPU, which has excellent properties of high tension, high tensile force, and aging resistance. It is high strength, good toughness, wear resistance, cold resistance, oil resistance, water resistance, weather resistance... etc. At the same time, it has high waterproof and moisture permeability, windproof, coldproof, antibacterial, mildewproof, warm, anti-ultraviolet and energy release... etc. Many excellent features. If you are looking for an antenna for your GSM/GPS/GLONASS/3G/LTE Passive Antenna, our TH-81K is a can't miss!!



### Model: TH-81K

Frequency Range	LTE: 600 · 700 · 800 · 900 · 1700 · 2200 · 2300MHz GPS: 1575 ,1602MHz ON Customer Machine GND
Nominal Impedance	50 ohm
V.S.W.R	3.5:1 max
Polarization	Vertical
Antenna Peak Gain	0 ~3dB
Material	TPU50D-10 (3403 Glue)
Touch Type	Screw Type
Operating Temperature	-30°C~+80°C
Antenna Dimensions	OD12.5 x 106mm±0.5
Connector Type	OD8.75-10 SMA (Male) Center PIN offset +/-0.08mm



2G

3G

5G

Lte

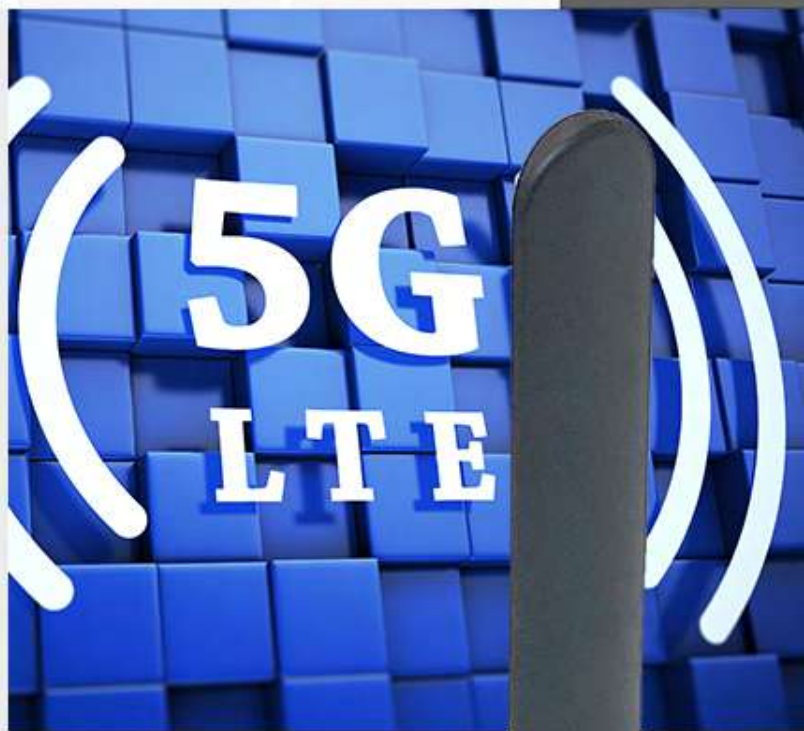
4G



**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer

### 2G/3G/4G/5G Antenna

Our TH-89G is designed for 2G/3G/4G/5G modules and devices. All of them offer excellent coverage and reliability with high efficiency and peak gain. TH-89G offers design flexibility with connectors in straight and folded modes. All those 2G/3G/4G/5G are offered in black color with male/female and are ideal for various wireless and networking applications. BJTEK's TH-89G is very reliable and durable, provides a strong and stable wireless connection, multi-protocol solution that supports GSM, CDMA, UMTS, LTE, 5G NR, and other cellular bands.



### Model: TH-89G

Frequency Band	600~960/1710~2700/3300~3800/4000~5000MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1
Connector Type	SMA (M) or RP-SMA (M)
Antenna Dimensions	179.6mm±3
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C



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## 4-axis Helix BDS/GNSS Active Antenna Model: GA-85D

GA-85D is the integration of a high performance BDS/GNSS antenna and a state-of-the-art lownoise amplifier into a very low profile/ extremely compact/ fully waterproof enclosure which, when connected to a BDS/GNSS receiver with 1.4~3.6V DC antenna power, provides excellent signal amplification and out-band filtering & rejection, provide 1.4~3.6V input Voltage is available.



### Model: GA-85D

Frequency range	1500- 1700 MHz
Power Gain	18db +/-3db
V.S.W.R	2.0 max.
Output Impedance	50 ohm
Dimension	OD12.5mm x 101mm
Weight	20 grams
Noise Figure	1.0 dB
Connector	SMA(M)

### Advantage

- High performance
- Out-band filtering & rejection
- Voltage: 1.4~3.6 V DC
- Provides excellent signal amplification
- OD12.5 x 101mm+/-3mm
- Compact & Sensitive BDS/GNSS antenna with Excellent Signal Amplification for Mobile Applications
- SMA(M)180° & 90° Connector
- Use ABS/PC/ASA plastic materials





## Marine GPS Antenna Model: MA-680

Tapered size and ruggedness design, demand of vehicle locating and marine navigation GPS antenna that will sustain harsh environment.

The antenna system MA-680 is the integration of the high-performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~5V DC antenna power it provides excellent signal amplification and out-band-rejection for that receiver.



### Advantage

- Low noise figure
- Fully weather proof
- Ultra-high Sensitivity
- Compact construction

Excellent temperature stability

GPS antenna with double threaded bolts and through holes for cable routing with course & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorized removal.



### Model: MA-680

Frequency range	1575.42 MHz +/- 1.023 MHz
Power Gain	28db +/- 4.5db
V.S.W.R	2.0 max
Output Impedance	50W ohm
Dimension	60mm(Dia.) x 140mm(H)
Weight	200grams (w/o cable)
Noise Figure	2.0typ
Operating Temperature	-40° C ~ +85° C.
Relative Humidity	95% non-condensing
Water Resistance	100% waterproof , IPX8





**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer

Dear Customer,

As Chinese New Year is close, BJTEK wanted to reach out and send our best wishes to you and yours! I hope that 2019 holds success and good fortune in any endeavour you pursue. It has been a pleasure working with you and your company.

Please noted that our Chinese New Year holiday is during 2 - 10 February, 2019.

With best wishes,  
Lotus

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HAPPY  
*New Year*



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## Marine or Base High Gain GPS Antenna Model: MA-700P

MA700P has been one of our top sale products every year. It is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. MA700P is not only hidden in a durable and waterproof cover, but also cable is protected by a base which can prevent damage. The special design for MA700P is really delicate, compact and reliable. Besides it has concinnity and compacted design for base. It is the integration of the high-performance GPS patch antenna and a low noise amplifier into an extremely fully waterproof enclosure and when connected to a GPS receiver with 3.0~5VDC antenna power, it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V~5 DC input Voltage. If you are looking for a good function and long last antenna, sure you don't want to miss this!



### Advantage

- High Gain.
- Antenna shell material ASA-UV.
- 100% waterproof/ IPX8.
- Apply with low-loss cable with cable length 100-200M.



## Model: MA700P

Frequency range	1575.42 MHz +/-1.023 MHz
Gain	38db(3V) / 45db(5V) (Without cable)
V.S.W.R	2.0 max
Output Impedance	50 ohm
Dimension	90.5mm(Dia.) x 108.5mm(H)
Weight	150grams (w/o cable & connector)
Connector Available	N(F) (standard), SMA(F)/TNC(F), other types (optional)
Relative Humidity	40% to 90% non-condensing
Operating Temperature	-30 C~ +80 C.
Water Resistance	100% waterproof , IPX8

As the holiday season is upon us, BJTEK Navigation Inc. wishes you peace, joy and prosperity throughout the coming year 2019. As we look back upon the past year, we would like to acknowledge those who have helped us shape our business. Thank you for your continued support and partnership. May you have a spectacular New Year!

**Merry Christmas & Happy New Year!**

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**BJTEK NAVIGATION, INC.**  
Professional antenna manufacturer

## Vehicle Marine Small GPS Antenna Model: MA-650

Our MA-650 is made with double threaded bolts and through holes for cable routing with coarse & fine threaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and unauthorized removal.

One of our classic antennas, MA-650 is the integration of the high-performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~5V DC antenna power it provides excellent signal amplification and out-band-rejection for that receiver. All our customers who have been purchased our MA-650 are very satisfied with it.



### Advantage

- Low noise figure
- Fully weather proof
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- Small size and ruggedness, demand of vehicle locating and marine navigation GPS antenna that will sustain harsh environment



### Model: MA-650

Frequency range	1575.42 MHz
Power Gain	28±4.5dB typical
V.S.W.R	1.5 max
Output Impedance	50Ω
Dimension	60mm(Dia.) x 95mm(H)
Weight	200grams (w/o cable & connector)
Noise Figure	1.5 min
Operating Temperature	-40 C ~ +85 C
Water Resistance	100% waterproof, IPX8



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## Vehicle Marine Small GPS Antenna Model: MA-620

Our MA-620 is made with double threaded bolts and through holes for cable routing with coarse & fine threaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and unauthorized removal.

The antenna system MA-620 is the integration of the high-performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~5V DC antenna power it provides excellent signal amplification and out-band-rejection for that receiver. If you are looking for a locating antenna for your ship or cruise, our MA-620 is a can't miss!!



### Advantage

- Low noise figure
- Fully weather proof
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- Small size and ruggedness, demand of vehicle locating and marine navigation GPS antenna that will sustain harsh environment



### Model: MA-620

Frequency range	1575.42 MHz
Power Gain	+5db
V.S.W.R	1.5 max
Output Impedance	50W ohm
Dimension	60mm(Dia.) x 70mm(H)
Weight	200grams (w/o cable & connector)
Noise Figure	2.0typ
Operating Temperature	-40 C~ +85 C
Water Resistance	100% waterproof , IPX8



## Vehicle Locating & Marine Small GPS Antenna

Our GA-68 is the integration of the high-performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +2.5~ 5.5V DC antenna powers it provides excellent signal amplification and out-band-rejection for that receiver. GA-68 works very good with all kinds of vehicle in all different kinds of rough weather. If you are looking for locating antenna sure you don't want to miss this.



### Advantage

- Low noise figure.
- Fully weather proof
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- GPS antenna with double threaded bolts and through holes for cable routing with coarse & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorized removal.



### Model: GA-68

Frequency range	1575.42 MHz +/-1.023 MHz
Power Gain	28 db +/-3db
V.S.W.R	2.0 max
Output Impedance	50 ohm
Dimension	60mm(Dia.) x 90mm(H)
Weight	65grams (w/o cable & connector)
Noise Figure	1.5 typ
Operating Temperature	-40 C~ +100 C
Water Resistance	100% waterproof , IPX8



## Vehicle Locating & Marine Small GPS Antenna

### Model: GA-65

Our GA-65 is formed with small size and ruggedness, demand of vehicle locating and marine navigation GPS antenna that will sustain harsh environment. The antenna system is the integration of the high performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +2.5~ 5.5V DC antenna powers it provides excellent signal amplification and out-band-rejection for that receiver. If you are looking for antenna sure this is a necessary.



### Advantage

- Low noise figure
- Fully weather proof.
- Ultra-high Sensitivity
- Compact construction
- Excellent temperature stability
- GPS antenna with double threaded bolts and through holes for cable routing with course & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorize removal.

Frequency range	1575.42 MHz +/-1.023 MHz
Power Gain	28 db +/-3db
V.S.W.R	2.0 max
Output Impedance	50 ohm
Dimension	60mm(Dia.) x 45mm(H)
Weight	65grams (w/o cable & connector)
Noise Figure	1.5 max
Operating Temperature	-40 C~ +100 C
Water Resistance	100% waterproof , IPX8



## Vehicle Locating & Marine Small GPS Antenna

### Model: GA-62

The antenna system GA-62 is the integration of the high performance GPS patch antenna and a low noise amplifier into state-of-the-art low a very low profile/extremely compact/fully waterproof antenna signal enclosure. When connected to a GPS receiver with +3~5V DC antenna power it provide excellent signal amplification and out-band-rejection for that receiver.



## Advantage

- Low noise figure.
- Fully weather proof.
- Ultra-high Sensitivity.
- Compact construction.
- Excellent temperature stability.
- GPS antenna with double threaded bolts and through holes for cable routing with course & fine treaded pitch locking for wing-nut fastener and lock-nut to prevent vibrations and un-authorized removal.

Frequency range	1575.42 MHz +/-1.023 MHz
Gain	28+/-4dB typical.
V.S.W.R	2.0 max
Dimension	60mm(Dia.) x 18.5mm(H)
Weight	65grams (w/o cable & connector)
Noise Figure	2.0 max
Output Impedance	50 ohm
Working Temperature	-40 C~ +85 C.
Water Resistance	100% waterproof , IPX8



## Container storage GSM / 4G / LTE alarm system dedicated antenna

### LTE Antenna

Model: GSM-680 GSM / 4G / LTE

GSM-680 is not only performance, but super value and convenient. GSM-680 was designed for multifunction and can be placed in both indoor and outdoor; you can apply it in factory, home, electricity meter, traffic light... etc. Our GSM-680 has been perform very well in all kinds of conditions and has been one of our top sales products.



## GSM-680 GSM / 4G / LTE



Frequency range	700~2700 Mhz
Gain	0-3dBi
V.S.W.R	<3.5 ( ON 320x 240mm GND )
Impedence	50 ohm
Dimension	60mm(Dia.) x 140mm(H)
Weight	180g ( with 0.5M &Accessories )
Power handling	10W
Working Temperature	-40~85°C
Water Resistance	100% waterproof , IPX8

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WE ARE YOUR BEST PARTNERS

## Mini GPS/GLONASS Locator Model: GA15G

### FEATURES:

- Chipset : MT3333 low power chipset
- Channels: 66 search channels,22 synchronous tracking channels GPS&QZSSL11575.42 MHzC/A, GLONASSL1OF1602MHz SBAS: WAAS, EGNOS, MSAS, GAGAN
- Time to First Fix (TTFF): UART port is used for NMEA output, MTK proprietary
- Power Input: 3.3V  $\pm$ 5%
- Dimension: 25.7.0x22.0x10.5(mm)



We here to inform you our powerful GA15G is Mini GPS/GLONASS Locator, is not only performance, but super value. GM-15G provides customer high position, velocity and time accuracy performances as well as high sensitivity and tracking capabilities. Customers benefit from the strength of both companies. Our G-Mouse GPS/GLONASS receiver is ideal for many portable applications such as PDA, Tablet PC, smart phone etc. Our GA15G is winning with it's small, easy to hide, Strong magnet or 3M double-sided adhesive especially Waterproof IPX7.



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## 3G/LTE Antenna

### Model: TH-88BL

TH-88BL is not only performance, but super value. TH-88BL was designed for multifunction and can be placed in both indoor and outdoor; you can apply in gas meter, water meter, electricity meter, traffic light... etc. TH-88BL can make your life easier.



	Description
Model	TH-88BL
Parameter	
Frequency Band	698-960/1710-2700GHz
Nominal Impedance	50ohm
Polarization	Vertical
V.S.W.R	6.5 : 1
Gain	0-4db
Antenna Cover	ABS or ASA
Connector Type	N(F)
Antenna Dimensions	OD25 x 77.6mm +/-0.5
Antenna Color	Black
Operating Temperature Range	-40°C ~ +80°C
Storage Temperature Range	-40°C ~ +80 C
Waterproof	IPX7



## Small Mini Mobile GPS/GLONASS Active Antenna

**Model:** GA15

### FEATURES:

Compact Construction/ Low Profile/Fully Waterproof  
Magnet Base & 3M Tape  
Excellent Temperature Stability  
Low Noise Figure  
High Sensitivity

### APPLICATIONS:

Automobile GPS/GLONASS  
Bluetooth Receiver  
Car Tracking Navigation System  
AVL / Fleet Management Systems  
External Antenna for Handheld GPS  
External Antenna for PDA Navigator



**Dimension:** 25.7 \* 22 \* 10.5 mm

**Antenna Cable Total Length:** RG174-3M-SMA(M) (-40~+105°C )

**Voltage:** 2.5 V ~5.5 V DC

**Antenna Material:** ASA-UV

NDFEB magnets N52 or 3M TapeTouch

**Operating Temperature Range:** -30°C ~ +70°C

**Storage Temperature Range:** -30°C ~ +70°C

**Waterproof:** IPX8



GA15 is with GPS/GLONASS Antenna, is not only performance, but super value. It shows great effect in all kinds of environment. You can also apply it in auto & Outdoor GPS/GLONASS devices. It works great as a tracker, calculating data..., and so on. GA15 is design with waterproof, anti-UV material, anti-attack, and with good performance in high temperature.

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## 3G/LTE Antenna Model: TH-81G & TH-88F

TH-81G and TH-88F is not only performance, but super value. Both of them are design for multifunction and can be placed in both indoor and outdoor; you can apply in gas meter, water meter, electricity meter, traffic light... etc. TH-81G and TH-88F can make your life easier.



Model	Description	
	TH-81G	TH-88F
Parameter		
Frequency Band	690-960/1710-2700GHz	
Nominal Impedance	50ohm	
Polarization	Vertical	
V.S.W.R	5.0 : 1 (On Customer Machine GND)	3.0 : 1 (On Customer Machine GND)
Gain	0-3db	
Antenna Material	ASA-UV	
Connector Type	SMA 180°(Male) OD10.0mm	
Antenna Dimensions	OD9.3 x 58.8mm +/-2	OD9.3 x 128.5mm +/-0.5
Antenna Color	Black	
Operating Temperature Range	-40°C ~ +80°C	
Storage Temperature Range	-40°C ~ +80°C	
Waterproof	IPX7	



## UHF RFID Ceramic Passive Antenna Module

PA-915B is an antenna applies with all RFIDReader. PA-915B always has good performance and makes you spend your time wisely and easily saving time. You can apply it in supermarket, hospital, factory storage, amusement park... etc., anywhere everywhere has RFID reader PA-915B would be your best choice.

PA-915B is just a small little antenna but with a huge contribution in this big sociality in the world.

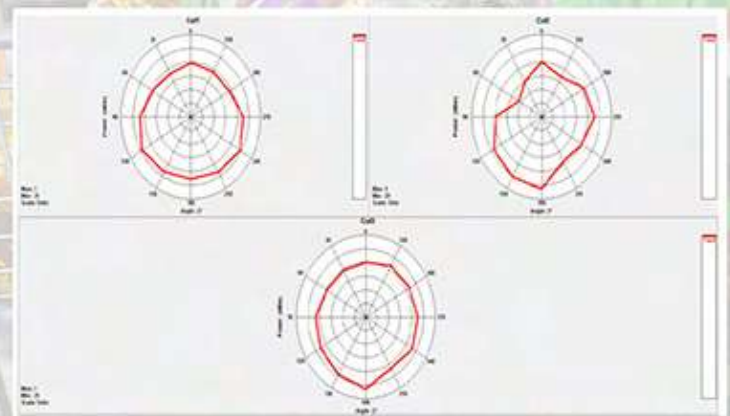
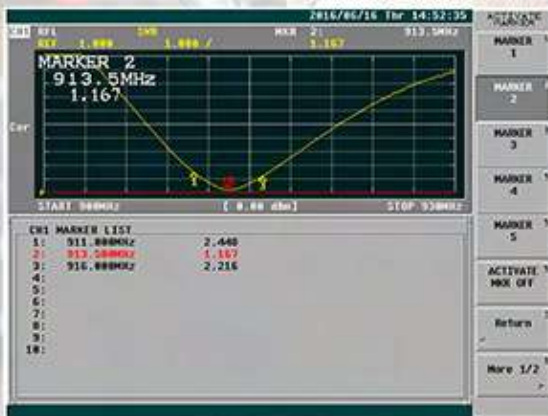


### Model: PA-915B

- Antenna Dimension: 34mm x 34mm x 7mm(H)
- Weight: >30 grams
- Operation Temperature: -40°C to +80°C
- Storage Temperature: -40°C to +80°C
- Relative Humidity: 40% to 95%
- Frequency Range: 911-916 MHz
- Peak Gain: 1.6 dBi (Linear Lab test)
- Bandwidth: 5MHz @S11< -7dB
- Polarization: RHCP
- Impedance: 50ohm
- VSWR: 2.5
- Cable: RG316-40cm-SMA(F) (option)



Frequency (MHz)	911	912	913	914	915	916
Peak Gain (dBi)	-1.75	-0.90	-0.04	0.81	1.67	1.16
Efficiency (%)	28.77	31.17	33.57	35.98	38.38	35.83





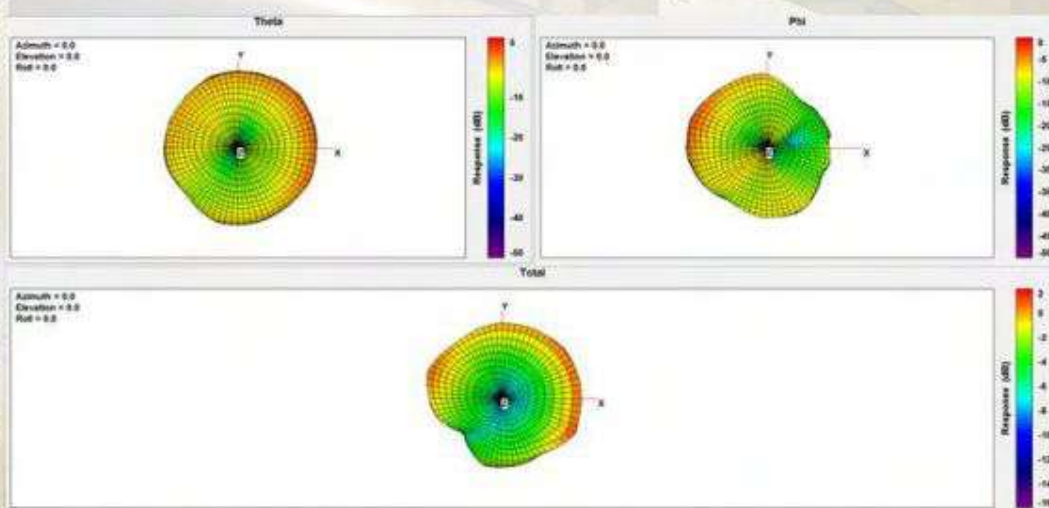
## MA96 LTE 3G/GSM Antenna

A new standard of excellence in an economical antenna was born. BJTEK is known as producing the best quality of antenna in Taiwan. Our Engineer has 20 years' OEM/ODM experience. Our antenna is now selling all around the world with positive feedbacks. BJTEK brings you the best of high-end features.



MA-96 is not only performance, but super value. MA-96 is design multifunction, you can apply in coin machine, advertising space, security protect, external antenna... etc. One small antenna of MA-96 can simplify your life with huge contribution.

- Frequency Band: 690/800/900/1800/1900/2700MHz
- V.SWR: 3.0:1
- Antenna Peak Gain: 0-3dBI ON GND
- Touch Type: Magnetic
- Antenna Dimension: 96mm±3
- Antenna Color: Black/Red





**CAR LTE/GSM Passive Antenna**  
**Model: TC-821**

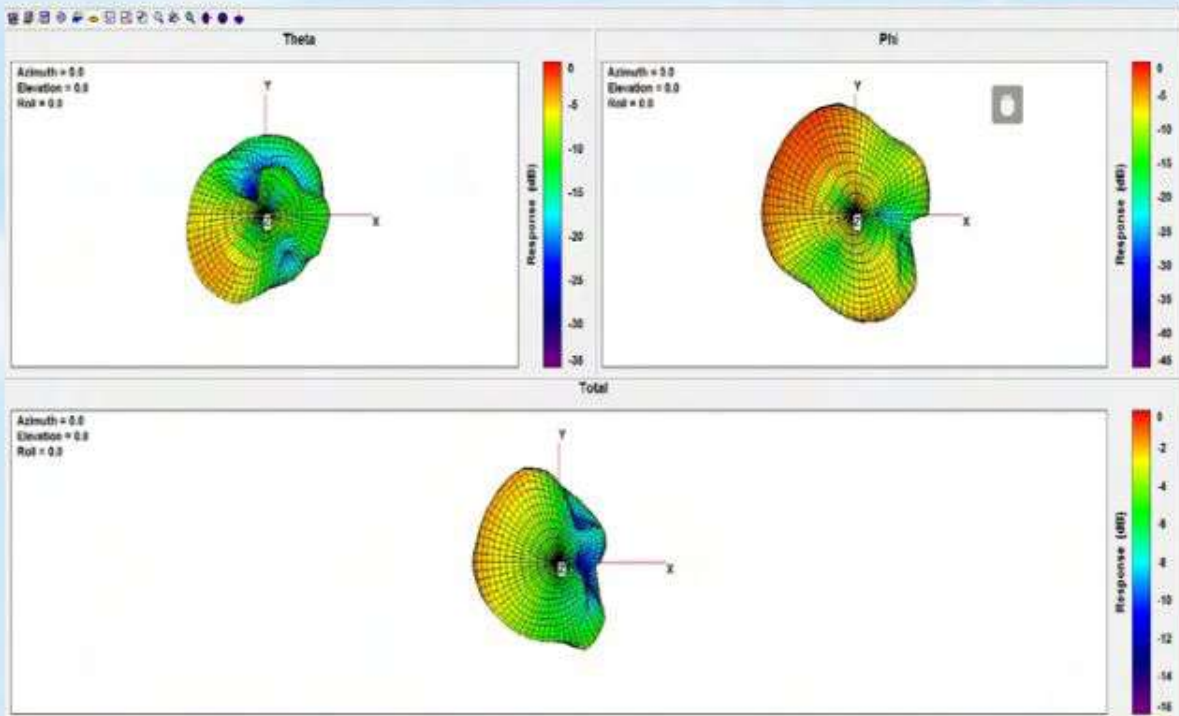
- \*Antenna Dimension: 115.5 x 22.2 x 6.8 mm
- \*Antenna Cable Total Length: RG174-3000mm +/-20 (-40~105°C)
- \*Frequency Band: 690~960/1710~2700Mhz
- \*Antenna Material: ASA778T-UV
- \*Operating Temperature Range: -40°C ~ +80°C
- \*Storage Temperature Range: -40°C ~ +80°C



TC-821 is not only performance, but super value. It shows great effect in all kinds of environment, also both land and ocean. You can also apply it in auto. TC-821 is with 3G or LTE or GSM. It works great as a tracker, calculating data..., and so on. TC-821 is design with waterproof, anti-UV material, anti-attack, and with good performance in high temperature.

Test result : (With 3M cable loss, 1M loss 1.2db)

Frequency (MHz)	690	815	830	860	875	960	1710	1990	2170	2400	2450	2500	2700
Peak Gain (dBi)	-0.97	0.23	1.03	1.16	0.71	0.41	1.09	0.94	-0.76	-1.28	-1.65	-1.06	-0.63
Efficiency (%)	33.02	36.01	42.09	41.68	39.47	33.54	36.84	31.18	23.50	22.80	20.33	21.68	21.36



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# 2.4G WIFI Antenna

## Model : TH-245

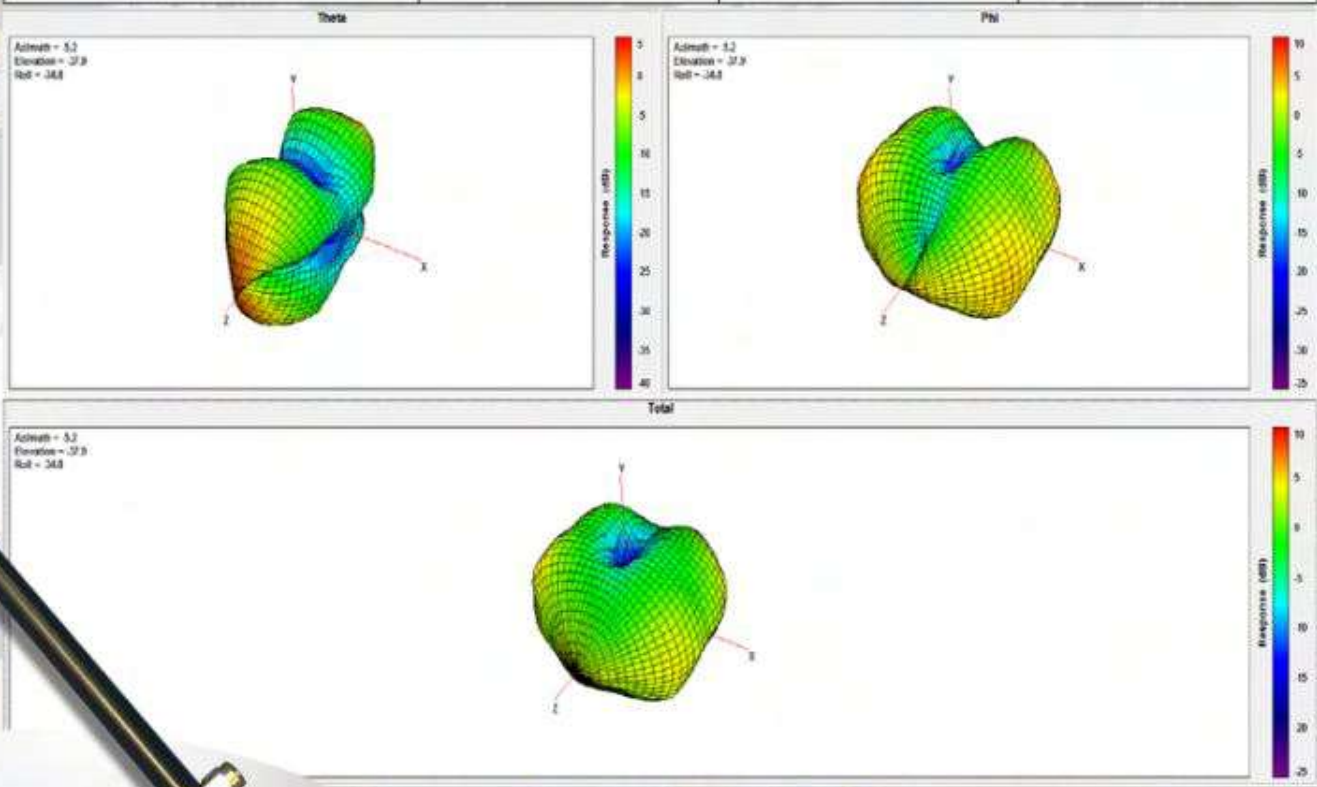
\*Antenna Dimension: OD9.4 x 127mm +/-2  
\*Frequency Band: 2.4~2.5 GHz  
\*V.S.W.R: 2.0:1  
\*Antenna Average Gain: 5dB  
\*Antenna Material: ASA778T-UV  
\*Connector Type: SUS303 - SMA90(Male)

\*Antenna Color: Black  
\*Operating Temperature Range: -40°C ~ +80°C  
\*Storage Temperature Range: -40°C ~ +80°C  
\*Waterproof: IPX7  
\*Adapter Cable: SUS303 SMA(SBJ) - 30cm-IPEX

TH-245 is not only performance, but super value. It shows great effect in all kinds of environment especially in industry site. You can also apply it in outdoor environment. TH-245 is made with excellent quality material. It is design with waterproof, anti-UV material, anti-attack, and with good performance in high temperature.



Frequency (MHz)	2400	2450	2500
Peak EIRP (dBi)	5.078	5.274	4.966
Directivity (dBi)	5.377	5.337	5.161
Efficiency (dB)	-0.299	-0.062	-0.195
Efficiency (%)	93.34	98.56	95.59



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## Outdoor Mini Omni 2.4/5.8G Antenna

### Model: MA-2458

A new standard of excellence in an economical antenna was born. BJTEK is known as producing the best quality of antenna in Taiwan. Our Engineer has 20 years' OEM/ODM experience. Our antenna is now selling all around the world with positive feedbacks. BJTEK brings you the best of high-end features.

MA-2458 is not only performance, but super value. MA-2458 is design for indoor and outdoor wireless AP/ router/ repeater or tall buildings that require long extra cables. MA-2458 is not only hidden in ABS cover with waterproof function, but also with powerful SUS430 magnet base mounting. You are able to apply it both indoor and outdoor. MA-2458 has high performance outdoor directional, long-range antenna for WiFi/ wireless networks with super mini size, operating temperature range can meet -40°C~80°C.

\*Dimension:  $\phi 48 \times 85 \text{mm}$

\*Frequency Band: 2400-2500/5100-5850Mhz

\*Antenna Peak Gain: 2-5dBi

\*Touch Type: SUS430 + NdFeB

\*Waterproof: IPX7

\*Magnet Br. 11.7-12.1 KGs

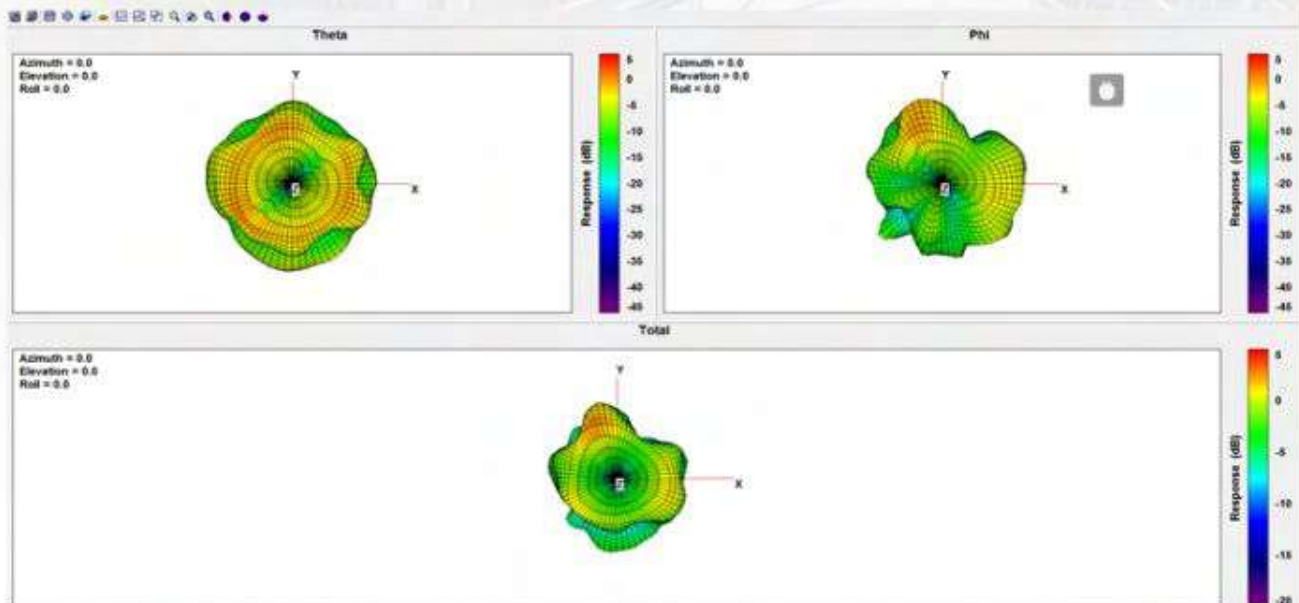
\*Drawing Force: 12-15kgs

\*Indoor and outdoor AP/ router

\*able to be applied on pilotless plane



Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5858
Peak Gain (dBi)	3.25	2.92	2.67	5.43	4.61	4.77	4.59	4.56	4.95	4.95	4.54
Efficiency (%)	38.99	39.07	39.41	52.33	45.22	47.41	45.18	42.42	47.60	45.91	39.70



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## Marine GPS / VHF & GPS / GLONASS / VHF MimoAntenna Model : GVA-680, GVA-680GL, GVA-680G, GVA-680L

- \* GPS/AIS VHF & GPS/GLONASS Combo Antenna
- \* To avoid snow and Seagull influence the signal, GVA-680, GVA-680GL, GVA-680G, GVA-680L were design with cone shape.
- \* 1"-14 UNS design for applying with Marine Antenna Base Mounting together.
- \* Waterproof: IPX7
- \* Design for harbor and near sea applying.



	GVA-680	GVA-680G	GVA-680GL	GVA680L
<b>Dimensions:</b>	60mm(Dia.) x 140mm(H)			
<b>Color:</b>	White			
<b>Mounting:</b>	FB1		FB3A SUS L-mounting 1"-14 UNS threaded mast	
<b>RF cable:</b>	GPS: SMA(M)-10M - CFD200 -TNC(M) or Optional			
<b>Connector available:</b>	RG174-15CM-SMA(F)			
<b>Polarization:</b>	R.H.C.P. (Right Handed Circular Polarization).			
<b>Supply Voltages:</b>	2.5~5.5V DC.			
<b>Center Frequency:</b>	1575.42 +/- 1.023 MHz	1570 ~1610 Mhz.	1570 ~1610 Mhz.	1575.42 +/- 1.023 MHz
<b>Noise Figure:</b>	1.5 max.	2.0 max.	2.0 max.	1.5 max.
<b>Operating</b>	-40°C~ +80°C.			
<b>Storage Temperature:</b>	-40°C~ +80°C.			
<b>Water Resistance:</b>	100% waterproof. IPX7			
<b>Frequency:</b>	158~164 Mhz			
<b>Gain:</b>	1dB			
<b>Polarization:</b>	Linear(omni)			
<b>RF cable:</b>	SMA(M)-10M-CFD200-PL259(M)			
<b>Configuration :</b>	1/4 wave			
<b>VSWR</b>	2.0:1			
<b>Connector:</b>	RG174-15CM-SMA(F)			

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**Vehicle Locating & Marine GPS & 3G, LTE MIMO Antenna**  
**Model: GAF68 / GAF68G / GAF68L / GAF68GL**

- ASA-UV outdoor weathering material, Waterproof is IPX8
- GPS/3G, LTE & GPS/GLONASS/3G, LTE Combo MIMO Antenna
- To avoid snow and Seagull influence the signal, we design with cone shape.
- Options 1"-14 UNS design for applying with Marine Antenna Base Mounting together.
- Designed for outdoor detection equipment/truck/boat.....



	GAF-68	GAF-68G	GAF-68L	GAF-68GL
Dimensions:	60mm(Dia.) x 90mm(H)			
Color:	White or Black			
Mounting:	X		FB6 SUS L-mounting	
Optional RF cable:	SMA(M)-5M- CFD200 -TNC(M) or Optional		Optional	
Antenna Connector :	RG174-20CM-SMA(F) or Optional		RG174-1.5M-SMA(M) or Optional	
Polarization:	R.H.C.P. (Right Handed Circular Polarization).			
Supply Voltages:	2.5~5.5V DC.			
Gain	28+/-3db			
VSWR	2.0			
GPS Frequency:	1575.42 MHz	1570 ~1610 Mhz	1575.42 MHz	1570 ~1610 Mhz.
Noise Figure:	1.5 max.	2.0 max.	2.0 max.	1.5 max.
Operating Temperature:	-40oC~ +80oC.			
Storage Temperature:	-40oC~ +80oC.			
Water Resistance:	100% waterproof. IPX8			
LTE Frequency:	690~960/1710~2700Mhz			
Paek Gain:	690~824: 3.3db 1710~2170 : 5.1db	824~960 : 3.1db 2170~2700 : 4.4db	690~824: 2.8db 1710~2170 : 2.7db	824~960 : 3.5db 2170~2700 : 2db
Polarization:	Linear(omni)			
Optional RF cable:	SMA(M)-5M-CFD200-SMA(M)		Optional	
Configuration :	1/4 wave			
VSWR	3.0:1			
Antenna Connector:	RG174-20CM-SMA(F) or Optional		RG174-1.5M-SMA(M) or Optional	