

## BY-GPS/GSM/Wifi-01

### 6-In-1(850/900/1800/1900/GPS/Wifi) Antenna



## Product Specifications

### Dielectric Antenna

Center Frequency (MHz) : 1575.42±3

VSWR : 1.5:1

Bandwidth (MHz) : ±5

Impedance (Ω) : 50

Peak Gain > 3dBi Based on 7cm×7cm ground plane

Gain Coverage > -4dBi at -90° < 0 < +90° (over 75% Volume)

Polarization : RHCP

### Wifi Antenna

Frequency (MHz) : 2400-2500

VSWR ≤ 1.5

Gain (dBi) : 2.15

Impedance (Ω) : 50

Polarization : Vertical

### GSM Antenna

Center Frequency (MHz) : 850/900/1800/1900

VSWR : 2.0:1

Impedance (Ω) : 50

Typical Gain :

2dBi±/-1dBi@850MHz ; 2dBi±/-1dBi@900MHz

1dBi±/-1dBi@1800MHz; 1dBi±/-1dBi@1900MHz

### LNA/Filter

LNA Gain(Without Cable) : 28 dBi Typical

Noise Figure (dB) : 1.5

Filter Out Band Attenuation (f<sub>0</sub>=1575.42 MHz)

7dB Min f<sub>0</sub>±/-20MHz;

20dB Min f<sub>0</sub>±/-50MHz;

30dB Min f<sub>0</sub>±/-100MHz

VSWR < 2.0

DC Voltage (V) : 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.

DC Current (mA) : 11 Max



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### Mechanical

Weight (gram ) <240

Size (mm) :70×70×14

Cable GPS (m) :RG174 2,5 etc.

GSM (m) :RG174 2,5 etc.

Wifi (m) :RG174 2,5 etc.

Connector:

GPS: SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/FAKRA etc.

GSM: SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/FAKRA etc.

Wifi: SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/FAKRA etc.

Mounting: Screw(Hole/Roof)/Magnetic/adhesive

Housing: Black

### Environmental

Working Temp: -40°C~+85°C

Storage Temp: -45°C~+100°C

Vibration: Sine sweep 1g(0-p)10~50~10Hz each axis

Humidity: Humidity95%~100%RH

Weatherproof: 100%Waterproof