

Alpha 1A

GSM, 3G, WiFi & ISM 'T-Bar' Antenna



Key Features

- Wide band antenna
- Flexible moulding
- High grade mounting adhesive
- RoHS compliant
- 104mm long T-bar design
- Quad band GSM/GPRS
- 3G/UMTS capable
- ISM: 868 and 915MHz
- WiFi: 2.4GHz

General Description

Designed for providing effective quad band GSM / GPRS performance in indoor applications, the Siretta "T-Bar" antenna is popular for in- vehicle communications as both a versatile antenna for hands free car kits or in after market telemetry applications. Also compatible for use with 3G and WiFi modems as well as the ISM 868 and 915MHz networks.

The Alpha 1A series of Antenna is available in any length RG174 cable and any connector termination. The most popular combinations are shown over page.

Additional Considerations

- Works on all European GSM / GPRS frequencies
- High grade integrated adhesive ensures long lasting bond to most surfaces, like windscreen / glass or dashboard material
- Custom cable length to enable convenient placement of antenna and routing round headlining of vehicles or under dashboard application
- Flexible moulding ensures good ability for antenna to contour around different materials and different phones
- Meets all EU compliance criteria for electronic goods

Rev 1.3

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Key Specifications - Electrical

Temperature range:	-20 to +80°C
Impedance:	50 ohm
VSWR:	≤2.0:1
Voltage:	Passive
Operating frequencies:	GSM/GPRS: 850, 900, 1800, 1900,MHz 3G: 2100MHz WiFi: 2400MHz ISM: 868, 915MHz
Polarization (cellular):	Vertical

Key Specifications - Mechanical

Dimensions:	104 mm x 10.8 mm x 4 mm
Case:	Black moulded plastic
Cable:	RG174
Connector:	SMA
Mounting method:	Adhesive

Gain

GSM

850MHz:	0.27dBi
900MHz:	1.16dBi
1800MHz:	2.61dBi
1900MHz:	3.36dBi

3G

2100MHz:	3.81dBi
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WiFi

2400MHz:	0.87dBi
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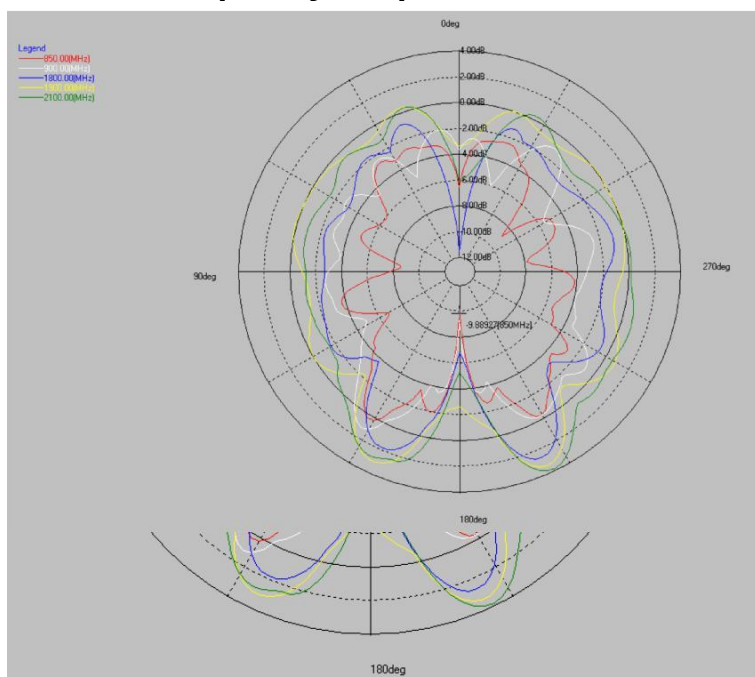
ISM

868MHz:	0.9dBi
915MHz:	1dBi

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Gain vs. Frequency Graph



UL Tested (Basingstoke, UK)
Part: ALPHA1A

Ordering Details

Part Number	Description
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ALPHA1A/2.5M/SMAM/S/S/11	T-Bar GSM/GPRS, 3G, WiFi & ISM Antenna, 2.5M Cable, SMA Male Connector
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