Siretta
inspired wireless technology

Alpha 7

Combined 27dBi GPS/GSM puck antenna



Key Features

- 27dB pre-amplifier
- High grade mounting adhesive
- 3 metre cable
- 50mm x 17.5 mm
- RoHS compliant

General Description

The Siretta Alpha 7 range of GPS and GSM combined antennas offer an excellent performance coupled with a simple installation to provide a quick, reliable fit either to OEM or after market telemetry products. This versatility makes it popular amongst trade suppliers to the automotive industry.

The 27dB pre-amplifier circuit ensures compatibility with many of today's GPS receivers whilst the 900/1800MHz dipole will allow GSM and GPRS coverage throughout Europe, Africa and most of Asia.

Measuring just 50mm diameter x 17.5mm depth, our standard version is supplied with 3m cable and comes with SMA male connectors on both GPS and GSM cables. Other cable lengths and connector options are available on request.

Additional Considerations

- Improves signal to noise ratio for mobile applications
- 3M PE foam backed ensures long lasting bond to windscreen
- Ideal for routing around headlining or under dash of vehicle
- Works on all UK and European GSM / GPRS cellular networks
- Meets all EU compliance criteria for electronic goods

Rev 1.1

Siretta Ltd
Basingstoke Road
Spencers Wood
Reading
Berkshire RG7 1PW

sales +44(0)118 976 9014
fax +44(0)118 976 9020
email sales@siretta.co.uk
web www.siretta.co.uk

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Key Specifications - Electrical

Temperature range:	-40 to +85°C
Impedance:	50 Ohm
GPS gain LNA:	27dB at LNA
GPS gain patch:	5dBi typ.
Gain at elevation of 10°	-1.0dBi min
Noise figure:	1.5dBi typ.
VSWR:	2.0 max
Current and voltage:	22mA max - 5V 15mA max - 3.3V
Polarization:	RHCP
Centre frequency GPS:	1575.42 MHz ± 1.023 MHz
Bandwidth:	10MHz
GSM frequency range (cellular):	900, 1800MHz
GSM polarization (cellular):	Vertical (denoted by cable exit pointing straight up or down)

Key Specifications - Mechanical

Dimensions:	50mm x 17.5mm without cable
Case:	Black ABS plastic
Cable:	3 metre RG174
Connector:	Please refer to options table over page
Mounting method:	Adhesive

Gain

GSM

850MHz:	-3.12dBi
900MHz:	0.14dBi
1800MHz:	-2.76dBi
1900MHz:	-3.02dBi

GPS

1575.42MHz	-3.91dBi

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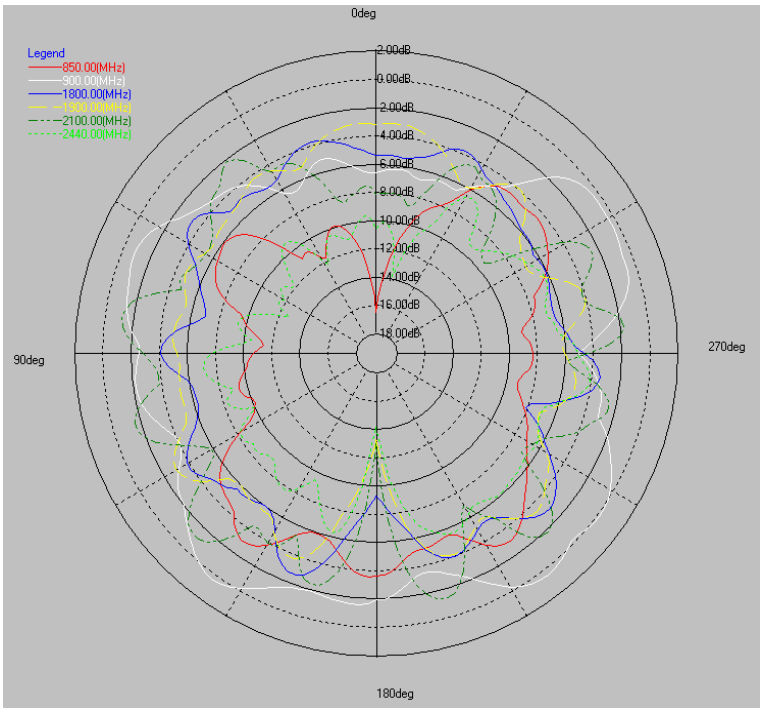
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Gain vs. Frequency Graph



UL Tested (Basingstoke, UK)
Part: ALPHA7/3M/SMAM/S/S/11

Ordering Details

Part Number	Description
ALPHA7/3M/FMEF/SMAM/S/S/11	Combined GPS/GSM Antenna, 3m Cable, SMA Male/FME Female Connector
ALPHA7/3M/SMAM/SMAM/S/S/11	Combined GPS/GSM Antenna, 3m Cable, SMA Male/SMA Male Connector

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VAT Registration No. GB163 04 0349

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