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.

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

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 1.0
Alpha 7
Combined 27dBi GPS/GSM puck antenna

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: 1.575.42 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

Test Reports
GPS Radiation Pattern
GSM Amplitude - 900MHz
GSM Amplitude - 1800MHz

Ordering Details
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<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>ALPHA7/3M/FMEF/SMAM/S/S/11</td>
<td>Combined GPS/GSM Antenna, 3m Cable, SMA Male/FME Female Connector</td>
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