Alpha 14
Low Profile GSM, 3G & ISM Antenna

Key Features
- GSM, 3G & ISM compatible
- Extremely low profile of 3mm
- Small footprint of 33.5 x 39.9mm
- 2.7dBi peak gain
- ISM: 868 and 915MHz

General Description
The Alpha 14 is supplied with 3M adhesive base that provide a secure fix onto many different surfaces, such as; metallic, plastic, glass and wooden making the Alpha 14, and other antennas in Alpha range, very versatile.

The Alpha 14 is tuned to the quad band GSM, 3G and the 868MHz and 915MHz ISM frequencies, allowing for worldwide use. This antenna is one of the most covert antennas available in the Siretta range due to its 3mm height and incredibly small footprint size of 33.5 x 39.9mm, which means passers-by will not spot this antenna with ease.

Supplied with a 2.5 meter RG174 cable and an SMA male connector as standard. Siretta welcomes custom cable lengths and connectors with volume orders. Please send your customised enquiries to sales@siretta.co.uk.

Additional Considerations
- Low profile design makes it ideal for covert applications
- Intended for indoor use
- Quad band GSM & 3G compatible so is capable of worldwide use
- RoHS compliant
### Key Specifications - Electrical

**Impedance:** 50 ohm  
**V.S.W.R:** <2.0  
**Frequency range:** 824 ~ 960, 1710 ~ 2170MHz  
**Polarization:** Linear

### Gain

<table>
<thead>
<tr>
<th>ISM</th>
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<tbody>
<tr>
<td>868MHz</td>
<td>2.0dBi</td>
<td></td>
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<tr>
<td>915MHz</td>
<td>2.4dBi</td>
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<thead>
<tr>
<th>GSM</th>
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<tr>
<td>850MHz</td>
<td>2.22dBi</td>
<td></td>
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<tr>
<td>900MHz</td>
<td>2.79dBi</td>
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<tr>
<td>1800MHz</td>
<td>2.69dBi</td>
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<td>1900MHz</td>
<td>1.34dBi</td>
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<th>3G</th>
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<tr>
<td>2100MHz</td>
<td>0.51dBi</td>
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### Key Specifications - Environmental

- **Operating temperature:** -40 to +85°C  
- **Vibration:** 10 to 55Hz with 1.5mm amplitude  
- **Relative humidity:** Up to 95%  
- **Environmentally friendly:** RoHS Compliant

### Key Specifications - Mechanical

- **Dimensions:** 33.5 x 39.9 x 0.4mm (see drawing below)  
- **Cable:** RG174  
- **Connector:** SMA or others  
- **Mounting method:** Adhesive  
- **Radome material:** ABS  
- **Unit:** mm

#### Dimensions (mm)

- **Length:** 39.9 ± 0.2
- **Width:** 33.5 ± 0.2
- **Height:** 4 to 8

**3M Sticker**

**SMA Male**

**Heat Shrink Tubing**

**RG174**

**4 to 8**
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Radiation Patterns

XY Plane

YZ Plane

824MHz
880MHz
960MHz
1710MHz
1850MHz
1990MHz
2170MHz
Test Reports

Peak Gain (dBi)

![Graph of Peak Gain (dBi)]

Efficiency %

![Graph of Efficiency %]

UL Tested (Basingstoke, UK)
Part: ALPHA14/2.5M/SMAM/S/S/26
Ref No: 10339609JD01
Date: 28/05/2014

Ordering Details

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>ALPHA14/2.5M/SMAM/S/S/26</td>
<td>Quad Band GSM and 3G Antenna, 2.5m Cable, SMA Male Connector</td>
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