# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSM/3G Antennas (External)</td>
<td>3</td>
</tr>
<tr>
<td>High Gain GSM/3G Antennas (External)</td>
<td>10</td>
</tr>
<tr>
<td>GSM/3G Antennas (Internal)</td>
<td>13</td>
</tr>
<tr>
<td>GPS Antennas</td>
<td>17</td>
</tr>
<tr>
<td>GSM + GPS Combo Antennas</td>
<td>24</td>
</tr>
<tr>
<td>RF Cables</td>
<td>Pigtails</td>
</tr>
<tr>
<td>Recommended Configurations for Telit GSM/GPS Modules</td>
<td>31</td>
</tr>
<tr>
<td>GLYN Standard Parts (Stocked Items)</td>
<td>36</td>
</tr>
</tbody>
</table>
GSM/3G Antennas (External)
DUAL BAND GSM ANTENNA

Technical Data

Applicable Bands: Dual Band 900/1800 MHz
Frequency Range: 880-960 MHz / 1710-1990 MHz
Bandwidth: ±5 MHz
VSWR (5m): 2.0 : 1
Impedance: 50 ohm
Gain: 2 dBi
Max Input power: 60W
Polarization Type: Vertical
Dimension: 10.4 (D) x 55 mm (H)
Colour: Black
Connector Type: SMA male or other
Operating Temperature: -40°C to +85°C
TRI BAND GSM ANTENNA

Model No. AGM001T

Technical Data

Applicable Bands: Tri Band 900/1800/1900 MHz
Frequency Range: 880-960 MHz / 1710-1990 MHz
Bandwidth: ±5 MHz
VSWR (5m): 2.0 : 1
Gain: 2 dBi
Max Input Power: 60 W
Impedance: 50 ohm
Polarization Type: Vertical
Dimension: 29 (D) x 120 mm (H)
Cable: RG174 3m, 5m, or others
Connector Type: SMA/MCX or others
Mounting: Magnetic
Housing: Black, IP67 rated
Operating Temperature: -40°C to +85°C
QUAD BAND GSM ANTENNAS

AGM000QFS
(SMA male connector)

Technical Data

Applicable Bands:
- Quad band 850/900/1800/1900 MHz

Frequency Range:
- 824-894 MHz / 880-960 MHz / 1710-1990 MHz

Bandwidth: ± 5 MHz

VSWR (5m): 2.0 : 1

Impedance: 50 ohm

Gain: 2 dBi

Max Input power: 60W

Polarization Type: Vertical

Dimension:
- 9 (D) × 89 mm (H) - QRS
- 8 (D) × 115 mm (H) - QFF

Colour: Black

Connector Type: SMA male (QRS), FME female (QFF)

Operating Temperature: -40°C to +85°C
PENTA BAND
GSM/3G ANTENNA

Model No. AGM000PFS

Technical Data

- Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
- Frequency Range: 824-894 MHz / 880-960 MHz
  1710-1990 MHz / 1920-2170 MHz
- Bandwidth: ± 5 MHz
- VSWR (5m): 2.0 : 1
- Impedance: 50 ohm
- Gain: 2 dBi
- Max Input power: 60W
- Polarization Type: Vertical
- Dimension:
  10 (D) × 110 mm (H)
- Colour: Black
- Connector Type: SMA male
- Operating Temperature: -40°C to +85°C
Model No. AGM001P

Technical Data

Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
Frequency Range: 824-894 MHz / 880-960 MHz
1710-1990 MHz / 1920-2170 MHz

Bandwidth: ±5 MHz
VSWR (5m): 2.0 : 1
Gain: 2 dBi
Max Input Power: 60 W
Impedance: 50 ohm
Polarization Type: Vertical
Dimension: 29 (D) x 120 mm (H)
Cable: RG174 3m, 5m, or others
Connector Type: SMA/MCX or others
Mounting: Magnetic
Housing: Black, IP67 rated
Operating Temperature: -40°C to +85°C

Model No. AGM002P

Technical Data

Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
Frequency Range: 824-894 MHz / 880-960 MHz
1710-1990 MHz / 1920-2170 MHz

Bandwidth: ±5 MHz
VSWR (5m): 2.0 : 1
Gain: 2 dBi
Max Input Power: 60 W
Impedance: 50 ohm
Polarization Type: Vertical
Dimension: 115 x 22 x 4 mm
Cable: RG174 3m, 5m, or others
Connector Type: SMA/MCX or others
Mounting: Adhesive
Housing: Black, IP67 rated
Operating Temperature: -40°C to +85°C
**Model No. AGM018P**

**Technical Data**

- Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
- Frequency Range: 824-894 MHz / 880-960 MHz
  - 1710-1990 MHz / 1920-2170 MHz
- Bandwidth: ± 5 MHz
- VSWR (5m): 2.0 : 1
- Impedance: 50 ohm
- Gain: 2 dBi
- Max Input Power: 60 W
- Polarization Type: Vertical
- Dimension: 71 (D) x 17mm (H)
- Cable: RG174 2m, 5m, or others
- Connector Type: SMA/MCX or others
- Housing: Black, IP67 rated
- Operating Temperature: -40°C to +85°C

**Model No. AGM023P**

**Technical Data**

- Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
- Frequency Range: 824-960 MHz
  - 1710-1990 MHz / 1920-2170 MHz
- Bandwidth: ± 5 MHz
- VSWR (5m): 2.0 : 1
- Impedance: 50 ohm
- Gain: 2 dBi
- Dimension: 45 (D) x 75.5 mm (H)
- Cable: RG58 30cm or others
- Connector Type: SMA/MCX or others
- Housing: Black, IP67 rated
- Operating Temperature: -40°C to +85°C
High Gain
GSM/3G Antennas
(External)
Model No. AGM024P

Technical Data

Applicable Bands: Penta Band 850/900/1800/1900/2100 MHz
Frequency Range: 824-894 MHz / 880-960 MHz
1710-1990 MHz / 1920-2170 MHz

Bandwidth: ± 5 MHz
VSWR (5m): 2.0 : 1
Impedance: 50 ohm
Gain: 5 dBi
Max Input Power: 60 W
Polarization Type: Vertical
Dimension: 40 (D) x 295 mm
Cable: RG174 2m, 5m, or others
Connector Type:
   SMA/MCX or others
Housing: Black, IP67 rated
Operating Temperature: -40°C to +85°C

Model No. AGM006D

Technical Data

Applicable Bands: Dual Band 850/900 MHz
Frequency Range: 825-960 MHz
Gain: 6.1 dBi
Dimension: 800 mm
Cable: 5m low loss coaxial cable, or other lengths
Connector Type: FME, SMA male or others
Mounting: Screw-type, antenna has spring base

Operating Temperature: 840°C
Model No. GL8/25-9

**Electrical Data**

- Applicable Bands: GSM/3G Penta Band
- Frequency Range: 806-2500 MHz
- Gain: 9dBi
- VSWR: < 1.5
- Polarisation: Vertical
- Horizontal Beamwidth: 65°
- Vertical Beamwidth: 55°
- Nominal Impedance: 50 ohm
- F/B Ratio: ≥ 14dB
- Max Input Power: 100W
- Lightning Protection: DC Ground

**Mechanical Data**

- Connector: SMA male (other connectors also available)
- Dimension: 300 x 210 x 65 mm
- Weight: 0.8 kg
- Cable length: 10m LMR200 low loss cable (other cable lengths also available)
- Reflector Material: Aluminum Alloy
- Radome Material: Weatherproof ABS
- Mounting Method: Mast
- Mast Size: Ø40 - Ø50 mm
- Rated Wind Velocity: 210km/hr
- Operating Temperature: -40 to +65°C

**Radiation Patterns**

- H-Plane
- V-Plane
GSM/3G Antennas (Internal)
**Model No. MiniGSM**

**Features**
- Ground plane dependent design
- Ideal for handheld devices and small terminals

**Technical Data**
- Applicable Bands: 900/1800 MHz
- Radiating Element: Quarter-wave meander line
- VSWR: 2.5 : 1
- Max Input Power: 10 W
- Dimension: 43 x 6 x 0.8 mm
- Cable: RG178
- Connector Type: MMCX or others

**Ordering Options**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMGB35025-MR-10</td>
<td>Mini-GSM Blade with 100mm RG178 and right-angled MMCX</td>
</tr>
</tbody>
</table>

**Model No. ISIS**

**Features**
- Ground plane independent design
- Ideal for handheld devices and access points

**Technical Data**
- Applicable Bands: Tri Band 900/1800/1900 MHz
- Radiating Element: Compacted folded dipole radiating element
- VSWR: 2 : 1
- Peak Gain: 1.0 dBi
- Max Input Power: 10 W
- Dimensions: 60 x 17 x 0.8 mm
- Cable: RG178
- Connector Type: SMA/MCX or others

**Ordering Options**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FISS35063-MR-16</td>
<td>Isis with 160mm RG178 and right-angled MMCX</td>
</tr>
<tr>
<td>FISS35063-UF-15</td>
<td>Isis with 150mm RG178 and U.FL</td>
</tr>
<tr>
<td>FISS35063-WF-10</td>
<td>Isis with 100mm RG178 and W.FL</td>
</tr>
</tbody>
</table>
**TRI BAND GSM ANTENNA**

**Model No. Neris**

**Features**
- Ground plane independent design
- Ideal for cellular terminals

**Technical Data**

Applicable Bands: Tri Band 900/1800 MHz  
Frequency Range: 880-960/1710-1990 MHz  
Gain: 1.0 dBi  
Max Input Power: 10 W  
Dimension: 81 x 21 x 0.8 mm  
Cable: RG178

**Ordering Options**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNER35001-MR-10</td>
<td>Neris with 100mm RG178 and right-angle MMCX</td>
</tr>
<tr>
<td>FNER35001-MR-16</td>
<td>Neris with 160mm RG178 and right-angle MMCX</td>
</tr>
<tr>
<td>FNER35001-SM-10</td>
<td>Neris with 100mm RG178 cable and SMA male</td>
</tr>
<tr>
<td>FNER35001-MU-10</td>
<td>Neris with 100mm cable and Murata GSC</td>
</tr>
<tr>
<td>FNER35001-UF-10</td>
<td>Neris with 100mm cable and U.FL</td>
</tr>
<tr>
<td>FNER35001-MCF-10</td>
<td>Neris with 100mm cable and MCF connector</td>
</tr>
</tbody>
</table>

**QUAD BAND GSM ANTENNA**

**Model No. S-QUAD**

**Features**
- Ground plane independent design
- Ideal for cellular terminals

**Technical Data**

Applicable Bands: Quad Band 850/900/1800/1900 MHz  
Radiating Element: Multi-band monopole with own ground plane  
VSWR: 2 : 1  
Peak Gain: 1.2 dBi  
Max Input Power: 10 W  
Dimensions: 110 x 20 mm  
Cable: RG178

**Ordering Options**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSQ35058-MR-16</td>
<td>S-Quad with 160mm RG178 cable and right-angled MMCX</td>
</tr>
<tr>
<td>FSQ35058-UF-10</td>
<td>S-Quad with 100mm RG178 cable and U.FL</td>
</tr>
</tbody>
</table>

**Ideal for cellular terminals**
PENTA BAND
GSM/3G ANTENNA

Model No. Quintus

Features
♦ Ground plane independent design
♦ Covers 850/900/1800/1900/2100 MHz bands
♦ Various cable/connector options
♦ Ideal for fixed and mobile terminals

Technical Data
Applicable Bands: Penta Band 850/900/1800/1900/2100 MHz
Radiating Element: 1/2 wave element
Gain: 2 dBi
Polarisation: Linear
Return loss: -7.0 dB
Power rating: 10W
Dimensions: 83 x 22mm
Cable / Connector: Various including MMCX, U.FL, SMA

Ordering Options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FQTN35144-MR-16</td>
<td>Quintus with 160mm RG-178 and MMCX Connector</td>
</tr>
<tr>
<td>FQTN35144-UF-10</td>
<td>Quintus with 100mm RG-178 cable and U.FL Connector</td>
</tr>
</tbody>
</table>
GPS Antennas
**Technical Data**

**Dielectric Antenna**
- Centre Frequency: 1575.42MHz ± 3MHz
- VSWR: 1.5:1
- Bandwidth: ±5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**LNA/Filter**
- LNA Gain (without cable): 28 dB +/-2dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 2.2—5V
- DC Current: 5—15mA

**Mechanical**
- Dimension: 43 x 33 x 14 mm
- Cable: RG174 3m, 5m or others
- Connector: MMCX right angle male/MCX straight male or others
- Mounting: Magnetic base
- Housing: Black

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH
- Waterproof: IP67

---

**Technical Data**

**Dielectric Antenna**
- Centre Frequency: 1575.42MHz ± 3MHz
- VSWR: 1.5:1
- Bandwidth: ±5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**LNA/Filter**
- LNA Gain (without cable): 28 dB +/-2dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 3—5V
- DC Current: 8—15mA

**Mechanical**
- Dimension: 39 x 33 x 14 mm
- Cable: RG174 3m, 5m or others
- Connector: SMA/SMB/MCX/MMCX or others
- Mounting: Magnetic base
- Housing: Black

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH
- Waterproof: IP67
GPS ACTIVE ANTENNA

Model No. AGG000F

Technical Data

**Dielectric Antenna**
Centre Frequency: 1575.42MHz ± 3MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

**LNA/Filter**
LNA Gain (without cable): 28 dB +/-2dB (typical)
Noise Figure: 1.5 dB
DC Voltage: 2.2—5V
DC Current: 5—15mA

**Mechanical**
Dimension: 46 (D) x 15mm
Cable: RG174 3m, 5m or others
Connector: SMA/SMB/MCX/MMCX or others
Mounting: Screw type
Housing: Black

**Environmental**
Working Temperature: -40°C to +85°C
Humidity: 55% to 75% RH
Waterproof: IP67

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GPS PASSIVE ANTENNA

Model No. AGG042

Technical Data

**Dielectric Antenna**
Centre Frequency: 1575.42MHz ± 3MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

**Mechanical**
Dimension: 40 x 39 x 14mm
Cable: RG174 3m, 5m or others
Connector: SMA/SMB/MCX/MMCX or others
Mounting: Magnetic base
Housing: Black

**Environmental**
Working Temperature: -40°C to +85°C
Humidity: 55% to 75% RH
Waterproof: IP67
GPS MARINE ACTIVE ANTENNA

Model No. AGG005

Technical Data

**Dielectric Antenna**
- Centre Frequency: 1575.42MHz ± 3MHz
- VSWR: 1.5:1
- Bandwidth: ±5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**LNA/Filter**
- LNA Gain: 28/38/52 dB
- Noise Figure: 1.5 dB
- DC Voltage: 2.2—5V

**Mechanical**
- Dimension: 94 (D) x 135mm
- Cable: RG58 8—30m
GPS ACTIVE ANTENNA

Model No. AGG044

The AGG044 surface-mount high-gain GPS antenna is the smallest active quadrifilar helix antenna available, providing high performance in difficult GPS applications.

The AGG044 integrates a high-performance, high-gain, low-noise amplifier and is an active antenna ideal in applications where:
- the device is handheld, body-worn, or otherwise surrounded by high-dielectric materials that would de-tune conventional antennas;
- the antenna is tightly integrated with other antennas, e.g., Bluetooth®/GPS receivers or GPS/GSM mobile phones;
- there are tight constraints on the size of the device or the amount of space allocated to ground planes;
- the GPS receiver requires 20dB or more of input pre-amplification;
- the orientation of the device is random; or
- the antenna will be embedded in the device.

The AGG044 antenna is balanced, which isolates it from the device and enables the antenna to reject common mode noise resident on the device ground plane. The construction and materials of the antenna constrain its near-field to a very small volume, therefore materials near the antenna have negligible de-tuning effects and the antenna maintains its pattern and efficiency in the presence of dielectric loading. As a dielectrically-loaded antenna with a high-performance SAW filter, the AGG044 antenna effectively attenuates signals from common GSM and ISM frequencies by as much as 30dB, minimizing the need for additional filtering.

The AGG044 antenna may be deployed in an external, “stub-style” configuration, but it is also a simple antenna to embed due to its isolation properties. The antenna is deployed with either a black radome or an ABS plastic sleeve.

Technical Data

Type: Quadrifilar Helix
Frequency: 1573.42 (min), 1575.42 (typ) 1577.42 (max) MHz
Polarization: Right-hand circular polarized
Voltage: 2.8 (min), 3.3 (typ), 3.6 (max) V
Current: 13 (typ), 15 (max) mA
Gain: +24 (min), +25 (typ) dBi
Beamwidth: 135 Degrees

Bandwidth (3dB): 20 MHz
Axial Ratio: <2.0 @ Zenith
VSWR: <2.0:1 (typ), 2.3:1 (max)
Impedance: 50
Noise Figure: 1.2 (typ), 1.3 (max) dB
Input 3rd Order Intercept Point: -10 dBm
Operating Temperature: -40 +20 +85 °C
Element Dimensions: 10 (diameter) x 17 (length) mm
Overall Dimensions (w/radome): 13 (dia) x 14.6 (width) x 44 (length) mm
Weight (excl radome or sleeve): 8.4 grams
Mounting: SMT
## GPS INTERNAL ACTIVE ANTENNA

### Model No. AGG000N

![Image of AGG000N antenna]

### Technical Data

**Dielectric Antenna**
- Centre Frequency: 1575.42MHz ± 3MHz
- VSWR: 1.5:1
- Bandwidth: ±5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**LNA/Filter**
- LNA Gain (without cable): 28 dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 3—5V
- DC Current: 5—10mA

**Mechanical**
- Dimension: 27 x 27 x 9mm
- Cable: RF174 or others
- Connector: MMCX/UFL or others

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH

### Model No. AGG055

![Image of AGG055 antenna]

### Technical Data

**Dielectric Antenna**
- Centre Frequency: 1575.42MHz ± 3MHz
- VSWR: 1.5:1
- Bandwidth: ±5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**LNA/Filter**
- LNA Gain (without cable): 10—30 dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 2.2—5V
- DC Current: 5—15mA

**Mechanical**
- Dimension: 13 x 13 x 6.5mm
- Cable: RF1.13 or others
- Connector: UFL/MMCX or others

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH
- Waterproof: 1P67
GPS INTERNAL
PASSIVE ANTENNA

Model No. AGG040

Technical Data

Dielectric Antenna
Centre Frequency: 1575.42MHz ± 3MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

Mechanical
Dimension: 20 x 20 x 4mm (other sizes also available)
Cable: RG174 3m, 5m or others
Connector: SMA/SMB/MCX/MMCX or others

Environmental
Working Temperature: -40°C to +85°C
Humidity: 55% to 75% RH
Waterproof: IP67
GSM + GPS
Combo Antennas
**Technical Data**

**GPS Dielectric Antenna**
- Centre Frequency: 1575.42 MHz ±3 MHz
- VSWR: 1.5:1
- Bandwidth: ± 5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**GSM Antenna**
- Applicable Bands: Quad Band 850/900/1800/1900 MHz
- Frequency: 824-894 MHz / 880-960 MHz / 1710-1990 MHz
- VSWR: 2.0:1
- Impedance: 50 ohm
- Typical Gain: 2 dBi

**LNA/Filter**
- LNA Gain (without cable): 30 dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 2.2–5 V
- DC Current: 5–15 mA

**Mechanical**
- Size: 80 mm (D) × 15 mm (H)
- Cable: RG174 3m, 5m or others
- Connectors: MMCX straight male/SMA/SMB/MCX or others

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH
- Weatherproof: IP67

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**Technical Data**

**GPS Dielectric Antenna**
- Centre Frequency: 1575.42 MHz ±3 MHz
- VSWR: 1.5:1
- Bandwidth: ± 5 MHz
- Impedance: 50 ohm
- Polarization: RHCP

**GSM Antenna**
- Applicable Bands: Quad Band 850/900/1800/1900 MHz
- Frequency: 824-894 MHz / 880-960 MHz / 1710-1990 MHz
- VSWR: 2.0:1
- Impedance: 50 ohm
- Typical Gain: 2 dBi

**LNA/Filter**
- LNA Gain (without cable): 30 dB (typical)
- Noise Figure: 1.5 dB
- DC Voltage: 2.2–5 V
- DC Current: 5–15 mA

**Mechanical**
- Size: 97 x 36 x 16mm
- Cable: RG174 3m, 5m or others
- Connectors: SMA/SMB/MCX or others

**Environmental**
- Working Temperature: -40°C to +85°C
- Humidity: 55% to 75% RH
- Weatherproof: IP67
COMBO GSM/GPS ANTENNA

Model No. AGC057

Technical Data

GPS Dielectric Antenna
Centre Frequency: 1575.42 MHz ±3 MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

GSM Antenna
Applicable Bands: Quad Band 850/900/1800/1900MHz
Frequency: 824-894 MHz / 880-960 MHz / 1710-1990 MHz
VSWR: 2.0:1
Impedance: 50 ohm
Typical Gain: 2 dBi

LNA/Filter
LNA Gain (without cable): 30 dB (typical)
Noise Figure: 1.5 dB
DC Voltage: 2.2—5 V
DC Current: 5—15 mA

Mechanical
Size: 59 x 52 x 15mm
Cable: RG174 2m, 5m or others
Connectors: SMA/SMB/MCX or others

Environmental
Working Temperature: -40°C to -85°C
Humidity: 55% to 75% RH
Weatherproof: IP67

COMBO GSM/3G/GPS ANTENNA

Model No. AGC000K

Technical Data

GPS Dielectric Antenna
Centre Frequency: 1575.42 MHz ±3 MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

GSM Antenna
Applicable Bands: Penta Band 850/900/1800/1900/2100MHz
Frequency Range: 824-894 MHz / 880-960 MHz / 1710-1990 MHz / 1920-2170 MHz
VSWR: 2.0:1
Impedance: 50 ohm
Typical Gain: 2 dBi

LNA/Filter
LNA Gain (without cable): 30 dB (typical)
Noise Figure: 1.5 dB
DC Voltage: 2.2—5 V
DC Current: 5—15 mA

Mechanical
Size: 91 x 62 x 62mm
Cable: RG174 3m, 5m or others
Connectors: SMA/SMB/MCX or others

Environmental
Working Temperature: -40°C to -85°C
Humidity: 55% to 75% RH
Weatherproof: IP67
COMBO GSM/GPS ANTENNA

Model No. AGC601

Technical Data

GPS Dielectric Antenna
Centre Frequency: 1575.42 MHz ±3 MHz
VSWR: 1.5:1
Bandwidth: ±5 MHz
Impedance: 50 ohm
Polarization: RHCP

GSM Antenna
Applicable Bands: Penta Band 850/900/1800/1900/2100 MHz
Frequency:
- 824-894 MHz / 880-960 MHz
- 1710-1990 MHz / 1920-2170 MHz
VSWR: 2.0:1
Impedance: 50 ohm
Typical Gain: 2 dBi

LNA/Filter
LNA Gain: 14 dB (typical)
Noise Figure: 1.5 dB
DC Voltage: 2.7—5.5 V
DC Current: 5—15 mA

Mechanical
Size: 68 (D) x 35 mm (H)
Cable: RG174 6m or others
Connectors: SMA/SMB/MCX or others

Environmental
Working Temperature: -40°C to -85°C
Humidity: 55% to 75% RH
Weatherproof: IP67
RF Cables | Pigtails
RF CABLES | PIGTAILS

GLYN can offer any cable length and connector combination. These include SMA, RP-SMA, FME, U.FL, MCX, MMX, TNC, BNC, Fakra, SMB and almost anything else available!

The options below are common stocked items but with an MOQ of 50pcs we can do any style you want with a typical lead time of 2-3 weeks.

**Model No. INTCABLE1**
MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack

**Model No. INTCABLE2**
MMCX straight male/plug + 15cm cable + SMA straight female/jack

**Model No. INTCABLE3**
MMCX right angle male/plug + 15cm cable + MCX bulkhead female/jack

**Model No. INTCABLE4**
SMA straight male/plug + 15cm cable + SMA straight bulkhead female/jack

**Model No. INTCABLE5**
U.FL + 15cm cable + SMA straight bulkhead female/jack
(recommended for Bluegiga WT11 and WT41 modules)

**Model No. INTCABLE6**
MMCX right angle male/plug + 10cm cable + SMB bulkhead female/jack

**Model No. INTCABLE7**
MMCX right angle male/plug + 7cm cable + MCX bulkhead female/jack

**Model No. INTCABLE11**
W.FL male + 15cm cable + SMA straight bulkhead female/jack (recommended for Bluegiga WT32-E module)

**Model No. INTCABLE16**
U.FL + 20cm cable + U.FL
GPS ANTENNA CONFIGURATION

CONFIGURATION:

GSM ANTENNA CONNECTOR TYPE — SMA, SMB, BNC, MCX, MMCX, FME, TNC, SMC or without connector

GPS ANTENNA CONNECTOR TYPE — SMA, SMB, BNC, MCX, MMCX, FME, TNC, SMC

All GPS antennas are shipped with 3.0V - 5.0V supply option unless otherwise specified.
Recommended Configurations for Telit GSM/GPS Modules
## RECOMMENDED CONFIGURATIONS FOR TELIT GSM/GPS MODULES

<table>
<thead>
<tr>
<th>Telit Modules</th>
<th>Recommended Options</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM862-QUAD-PY GM862-QUAD</td>
<td><strong>Option 1</strong>: GSM antenna with built-in cable and MMCX straight male connector</td>
<td><strong>AGM001P (MMCX)</strong>: GSM antenna + 3 metre cable + MMCX straight male connector</td>
</tr>
<tr>
<td></td>
<td><strong>Option 2</strong>: GSM antenna with built-in SMA male connector + SMA female to MMCX male interface cable</td>
<td><strong>AGM000QF (SMA)</strong>: GSM antenna + SMA right angle male connector, or <strong>AGM001P (SMA)</strong>: GSM antenna + 3 metre cable + SMA straight male connector + <strong>INTCABLE1</strong>: MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack</td>
</tr>
<tr>
<td>GM862-GPS</td>
<td><strong>Option 1</strong>: Combo GSM/GPS antenna with built-in cable and MMCX male connectors</td>
<td><strong>AGC000E (MMCX)</strong>: Combo GSM/GPS antenna + 2 metre cable + MMCX straight male connectors (both GSM and GPS)</td>
</tr>
<tr>
<td></td>
<td><strong>Option 2</strong>: Combo GSM/GPS antenna with built-in cable and SMA male connectors + SMA female to MMCX male interface cable</td>
<td><strong>AGC000B (SMA)</strong>: Combo GSM/GPS antenna + 2 metre cable + SMA straight male connectors, or <strong>AGC000E (SMA)</strong>: Combo GSM/GPS antenna + 2 metre cable + SMA straight male connectors (both GSM and GPS) + <strong>INTCABLE1</strong>: MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack</td>
</tr>
</tbody>
</table>

**GM862-QUAD-PY GM862-QUAD**

**NOTE**: Both modules come with a built-in MMCX female connector for the GSM antenna.

**NOTE**: GM862-GPS comes with built-in MMCX female connectors for the GSM and GPS antennas.
## RECOMMENDED CONFIGURATIONS FOR TELIT GSM/GPS MODULES

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<th>Telit Modules</th>
<th>Recommended Options</th>
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</thead>
</table>
| GM862-GPS     | **Option 3:** Separate GSM and GPS antennas. Either direct MMCX connection or SMA with interface cable option can be selected. | **GSM PART:**  
  **MMCX Option:**  
  **AGM001P (MMCX):** GSM antenna (900/1800 MHz) + 3 metre cable + MMCX straight male connector  
  **SMA Option:**  
  **AGM000Q (SMA):** GSM antenna (900/1800 MHz) + SMA right angle male connector, or  
  **AGM001P (SMA):** GSM antenna (900/1800 MHz) + 3 metre cable + SMA straight male connector  
  **+**  
  **INTCABLE1:** MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack |
|               | **GPS PART:**       |  
  **MMCX Option:**  
  **AGC000D (MMCX):** GPS active antenna + 2 metre cable + MMCX straight male connector  
  **SMA Option:**  
  **AGC000D (SMA):** GPS active antenna + 2 metre cable + SMA straight male connector  
  **+**  
  **INTCABLE1:** MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack |
Sample GM862-QUAD/QUAD-PY Configuration with Direct MMCX Connection

Sample GM862-QUAD/QUAD-PY Configuration using SMA to MMCX Interface Cable
Sample GM862-GPS Configuration with Combo GSM/GPS Antenna with Direct MMCX Connections

Sample GM862-GPS Configuration with Separate GSM and GPS Antennas with Direct MMCX Connections
GLYN Standard Parts
(Stocked Items)
## GLYN STANDARD PARTS (STOCKED ITEMS)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGM000Q</td>
<td>Flexible GSM antenna, Quad Band 850/900/1800/1900 MHz, SMA right angle connector</td>
</tr>
<tr>
<td>AGM000QF</td>
<td>Flexible GSM antenna, Quad Band 850/900/1800/1900 MHz, SMA adjustable-angle connector</td>
</tr>
<tr>
<td>AGM001P (SMA Straight)</td>
<td>GSM/3G antenna, Penta Band 850/900/1800/1900/2100 MHz, 3 metre cable, SMA straight male connector, magnetic mounting</td>
</tr>
<tr>
<td>AGM001P (MMCX)</td>
<td>GSM antenna, Penta Band 850/900/1800/1900/2100 MHz, 3 metre cable, MMCX straight male connector, adhesive mounting</td>
</tr>
<tr>
<td>AGM002P (SMA)</td>
<td>GSM antenna, Penta Band 850/900/1800/1900/2100MHz , 3 metre cable, SMA straight male connector</td>
</tr>
<tr>
<td>AGM024P (SMA)</td>
<td>GSM/3G antenna, Penta Band 850/900/1800/1900/2100MHz , 2 and 5 metre cable, SMA straight male connector</td>
</tr>
<tr>
<td>Isis (RA MMCX)</td>
<td>GSM internal antenna, Tri Band 900/1800/1900 MHz, 10cm cable MMCX right-angled connector</td>
</tr>
<tr>
<td>Isis (U.FL)</td>
<td>GSM internal antenna, Tri Band 900/1800/1900 MHz, 10cm cable U.FL connector</td>
</tr>
<tr>
<td>Quintus (MMCX)</td>
<td>GSM/UMTS internal antenna, Penta Band 850/900/1800/1900/2100 MHz, 160mm RG-178 and MMCX Connector</td>
</tr>
<tr>
<td>Quintus (U.FL)</td>
<td>GSM/UMTS internal antenna, Penta Band 850/900/1800/1900/2100 MHz, 100mm cable and U.FL Connector</td>
</tr>
<tr>
<td>AGG000D (SMA)</td>
<td>GSM antenna, magnetic mounting, 3 metre cable, SMA straight male connector</td>
</tr>
<tr>
<td>AGG000D (MMCX)</td>
<td>GSM antenna, magnetic mounting, 3 metre cable, MMCX straight male connectors</td>
</tr>
<tr>
<td>AGG000D (MCX)</td>
<td>GSM antenna, magnetic mounting, 3 metre cable, MCX straight male connectors</td>
</tr>
<tr>
<td>AGG000H (SMA)</td>
<td>GSM antenna, magnetic mounting, 3 metre cable, SMA straight male connectors</td>
</tr>
<tr>
<td>AGC000B (SMA)</td>
<td>Combo GSM/GPS antenna, magnetic mounting, 2 metre cable, SMA straight male connectors</td>
</tr>
<tr>
<td>AGC000B (MMCX)</td>
<td>Combo GSM/GPS antenna, magnetic mounting, 2 metre cable, MMCX straight male connectors</td>
</tr>
<tr>
<td>AGC000E (SMA)</td>
<td>Combo GSM/GPS antenna, magnetic mounting, 2 metre cable, SMA straight male connectors</td>
</tr>
<tr>
<td>INTCABLE1</td>
<td>MMCX right angle male/plug + 15cm cable + SMA straight bulkhead female/jack</td>
</tr>
<tr>
<td>INTCABLE4</td>
<td>MMCX straight male/plug + 15cm cable + SMA straight female/jack (recommended for WT11 and WT41 modules)</td>
</tr>
<tr>
<td>INTCABLE5</td>
<td>U.FL + 15cm cable + SMA straight bulkhead female/jack</td>
</tr>
</tbody>
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**NOTE:** Non-stocked options (e.g. different connector or cable length) has MOQ of 50pcs.