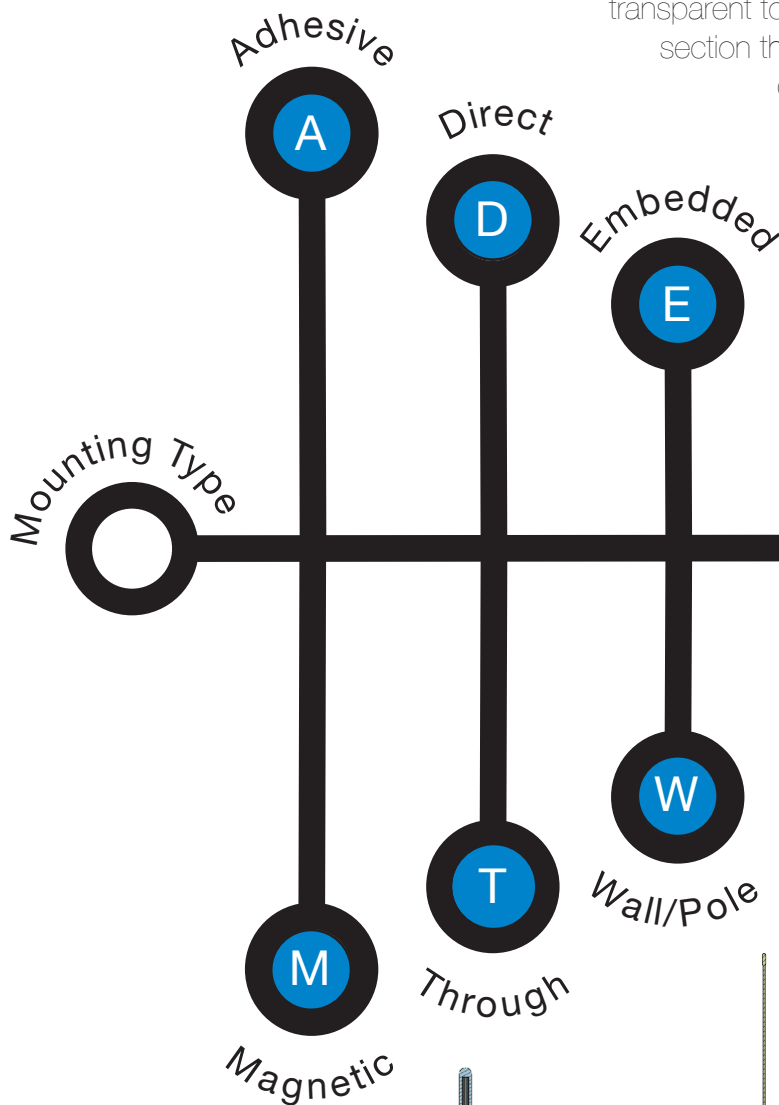


Selection Guide

Antenna selection can be simplified by breaking down the key criteria.

- Mounting Type
- Technology Type (frequency required).

An antenna on the outside of a device could perform better than an embedded type. Embedded antennas need to be close to the surface of the device, have a well managed ground system and are best placed in a window that is transparent to radio waves. A metal box can have a cut-out section that will provide the antenna window. Normally this can be hidden by exterior trim pieces like dark glass or perspex.



Find your Siretta Antenna Here



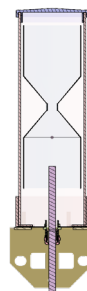
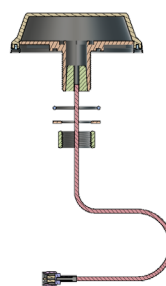
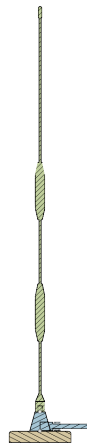
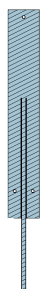
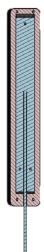
Technology Type

ISM 151

ISM 173

ISM 433

ISM 458

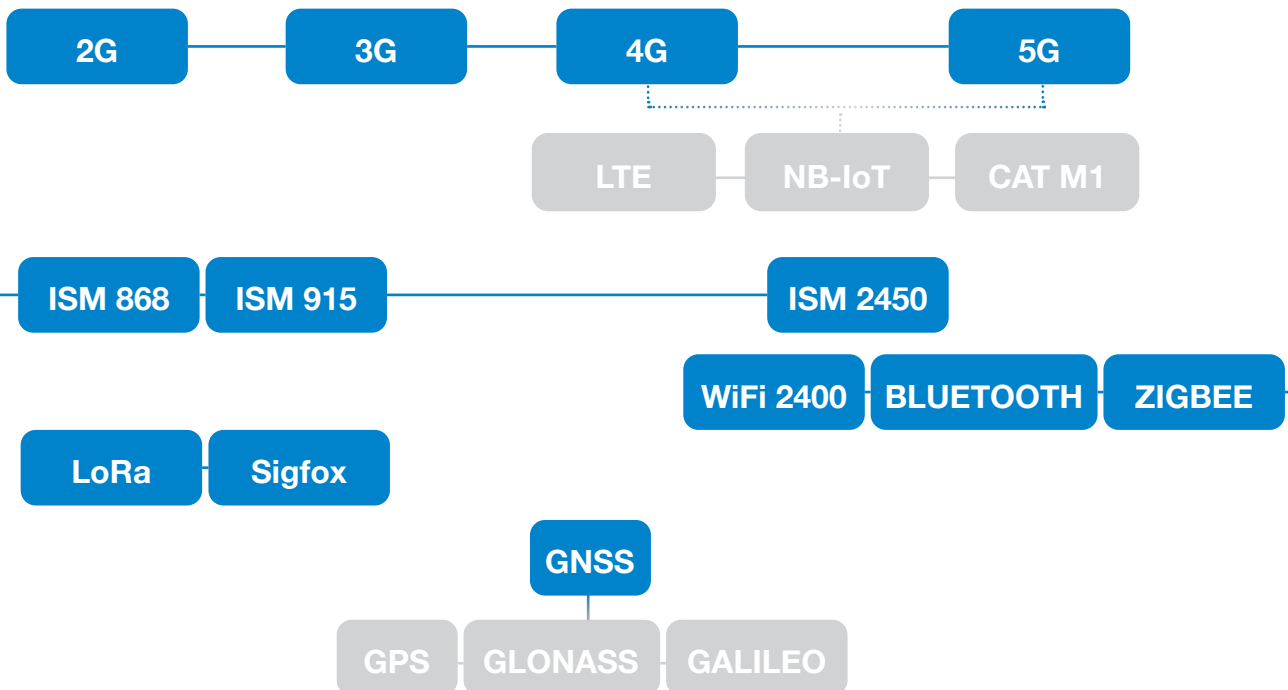


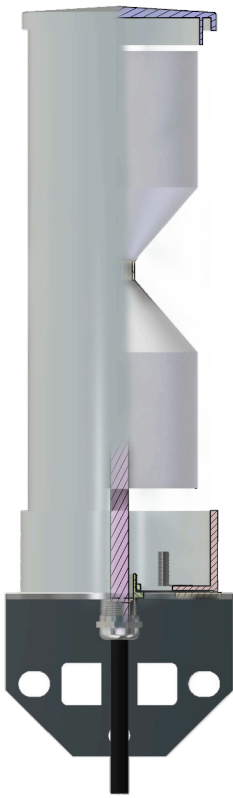
Siretta Peak Performance



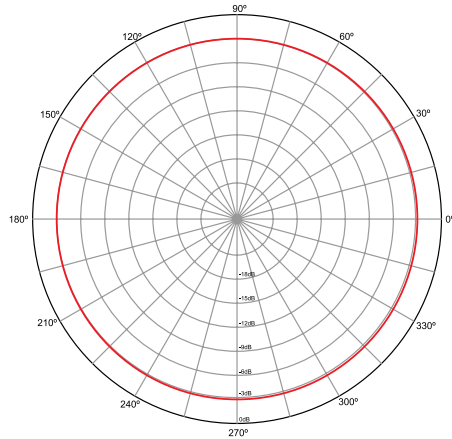
Antenna gain is one factor in obtaining the best performance. The cable length and type will play a part in signal reduction (attenuation) too. For long cable runs choose a low loss type with a larger centre conductor size

Design your system with an antenna. Just adding one afterwards will not yield the best results and could lead to substantial design changes.

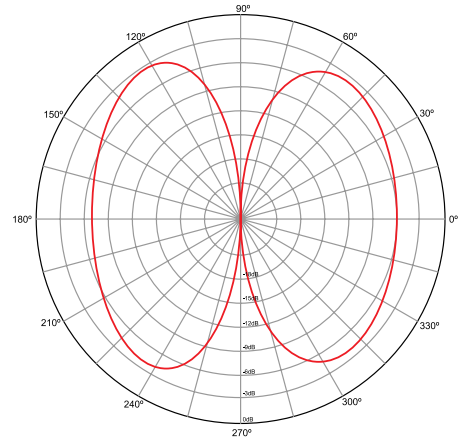




Omni-Directional



H - PLANE

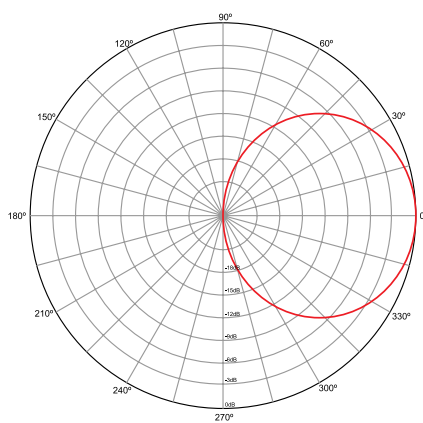


E - PLANE

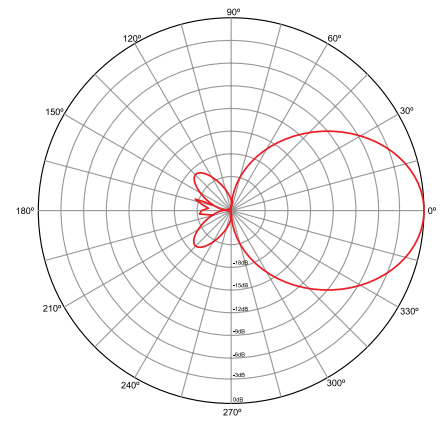
When mobility of the device is key, an omnidirectional antenna will interact with base stations more quickly and stay in contact for longer. In an omnidirectional antenna the gain value is best when it is even across the frequency spectrum.

The larger the antenna the more gain will be acquired. Smaller antennas use a 1/4 wave and larger antennas 1/2 or full waves.

Directional

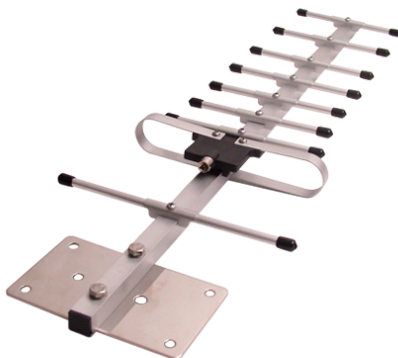


H - PLANE



E - PLANE

WiFi 5800



Directional antennas, in contrast to the omni types, have a larger gain in one direction. The power from and to the antenna is through a narrow beam width where multiple elements guide the wave down to the antenna dipole.

Good for fixed locations where the base station mast locations are known

Understand Your Location

The **SNYPER** cellular signal analyser can be used to find the best network provider and most reliable cell tower location.

In weak signal areas a directional antenna can be utilised to maximise signal strength.

Multiple tests can be run concurrently to find the most reliable signal. The best signal may not have the highest strength but the most presence.

A key factor for system reliability.



LIVESCAN ANTENNA KIT

Locate cell towers simply and quickly. Then mount your antenna to obtain the best signal.



Find Out More Here

Indoor or Outdoor

Outdoor antennas may need to be protected from the environment so a selection of IP (Ingress Protection) may be required. IP54 represents a normal outdoor weather situation. Mounting in a more harsh environment may require a rating of IP66 for high pressure jets of water and IP67 if the antenna will be submerged (temporarily - as antennas do not work well underwater).

Siretta Provide

IP65

IP67

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Antenna Selection

