



### Remote LTE and 5G Antenna Kits

#### IP65 Weatherproof, Omnidirectional, Multi-Antenna Housings With Flexible Mounting Options

##### Product Description

Silicom's remote MIMO antenna kits improve LTE and 5G data throughput (speed) for difficult site installations.

When the LTE/5G network device is embedded in a building or enclosure with obstructions and no line of sight to the cellular basestation (tower), these kits allow the installer to move the antennas away from the network device to the most optimal location outside of those obstructions.

Two antenna kit types are offered: one kit for LTE and one kit for 5G (with LTE fallback). The IP65 weatherproof housings contain multiple antennas with multiple coax cable connections so that only one antenna kit is needed for each site:

- LTE kit weatherproof housing contains two internal LTE antennas. The kit includes two low-loss coax extension cables.
- 5G kit weatherproof housing contains four internal LTE/5G antennas. The kit includes four low-loss coax extension cables.

Hardware included in the kits allows for flexible indoor/outdoor mounting on wall, pole, or window locations. Multiple low-loss coax cable length options are offered to perfectly adapt antenna location to each site.

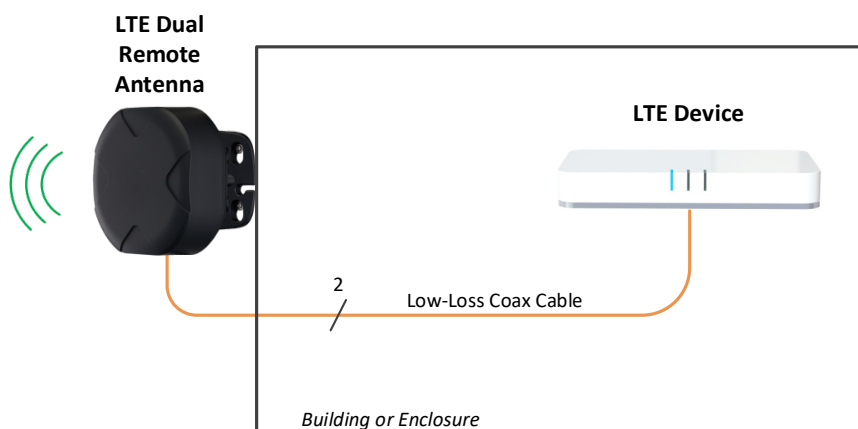
The antennas are omnidirectional and do not need to be "aimed" at the cellular basestation. However, some sites require colocation with other types of antennas; e.g. on a building roof. A steerable ball mount is included for optional tuning/positioning of the antenna housing relative to other nearby antennas.



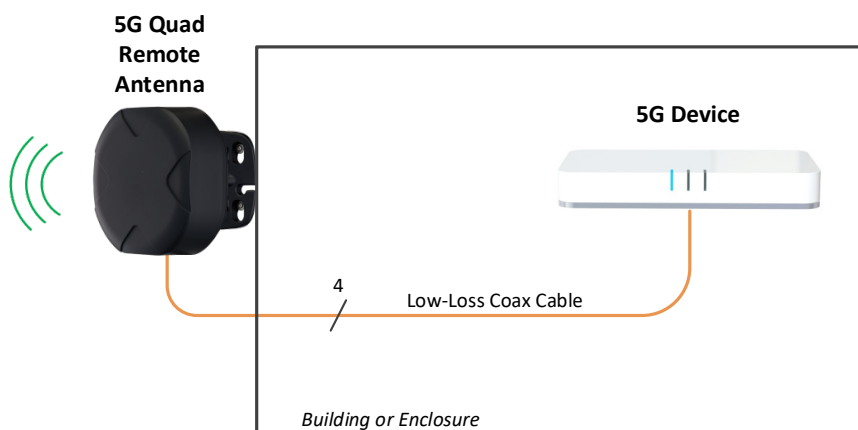
Steerable Ball Mount



### LTE Dual Antenna Kit



### 5G/LTE Quad Antenna Kit



**NOTE:** 5G quad antenna supports both 5G frequencies and LTE frequencies, depending on cellular networks available at the site.

Feature	Description
Antenna Type	<ul style="list-style-type: none"> <li>Kit option 1: LTE</li> <li>Kit option 2: 5G/LTE</li> </ul>
Antennas Per Housing	<ul style="list-style-type: none"> <li>LTE: 2x LTE antennas (MIMO)</li> <li>5G: 4x 5G/LTE antennas (MIMO)</li> </ul>
Directionality	<ul style="list-style-type: none"> <li>Omnidirectional (steerable mount for optimization with other nearby antennas)</li> </ul>
Mounting Options	Hardware included for: <ul style="list-style-type: none"> <li>Wall mount</li> <li>Pole mount</li> <li>Window mount</li> </ul>
Coax Cable Length (antenna)	<ul style="list-style-type: none"> <li>3 m hard-wired to antenna housing (built-in)</li> </ul>
Coax Cable Length (extension)	Kit options for extension cables in lengths: <ul style="list-style-type: none"> <li>5 m</li> <li>10 m</li> <li>20 m</li> </ul>
Coax Cable Impedance	<ul style="list-style-type: none"> <li>50 ohms</li> </ul>
Coax Cable Loss	Loss per meter at various frequencies: <ul style="list-style-type: none"> <li>0.37 dB/m @ 0.5 GHz</li> <li>0.58 dB/m @ 1.0 GHz</li> <li>0.92 dB/m @ 2.0 GHz</li> <li>1.23 dB/m @ 3.0 GHz</li> <li>1.51 dB/m @ 4.0 GHz</li> <li>1.78 dB/m @ 5.0 GHz</li> <li>2.04 dB/m @ 6.0 GHz</li> </ul>
Power input	<ul style="list-style-type: none"> <li>None (passive)</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>IP65 weatherproof indoor/outdoor</li> <li>-40 to +85C operating temperature</li> </ul>
Antenna Dimensions	<ul style="list-style-type: none"> <li>LTE kit: 165 x 165 x 99 mm (L x W x H)</li> <li>5G kit: 165 x 165 x 149 mm (L x W x H)</li> </ul>
Antenna Weight	<ul style="list-style-type: none"> <li>LTE kit: 494 g</li> <li>5G kit: 900 g</li> </ul>
Branding	<ul style="list-style-type: none"> <li>Generic: no Silicom logo/content on parts, labels, packaging, or documentation</li> </ul>

P/N	Options
80500-0238-G00	<ul style="list-style-type: none"> <li>• LTE dual antenna kit</li> <li>• 3 m integrated coax cables (qty 2)</li> <li>• 5 m coax extension cables (qty 2)</li> </ul>
80500-0238-G01	<ul style="list-style-type: none"> <li>• LTE dual antenna kit</li> <li>• 3 m integrated coax cables (qty 2)</li> <li>• 10 m coax extension cables (qty 2)</li> </ul>
80500-0238-G02	<ul style="list-style-type: none"> <li>• LTE dual antenna kit</li> <li>• 3 m integrated coax cables (qty 2)</li> <li>• 20 m coax extension cables (qty 2)</li> </ul>
80500-0239-G00	<ul style="list-style-type: none"> <li>• 5G/LTE quad antenna kit</li> <li>• 3 m integrated coax cables (qty 4)</li> <li>• 5 m coax extension cables (qty 4)</li> </ul>
80500-0239-G01	<ul style="list-style-type: none"> <li>• 5G/LTE quad antenna kit</li> <li>• 3 m integrated coax cables (qty 4)</li> <li>• 10 m coax extension cables (qty 4)</li> </ul>
80500-0239-G02	<ul style="list-style-type: none"> <li>• 5G/LTE quad antenna kit</li> <li>• 3 m integrated coax cables (qty 4)</li> <li>• 20 m coax extension cables (qty 4)</li> </ul>



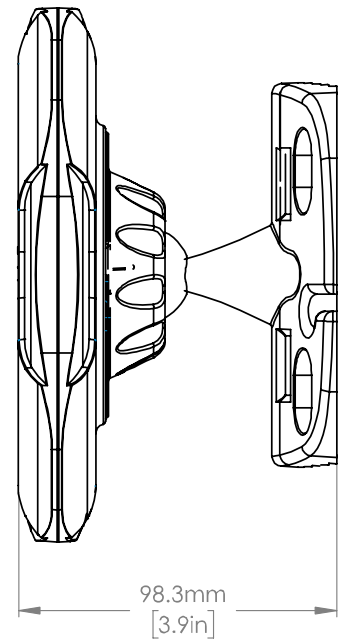
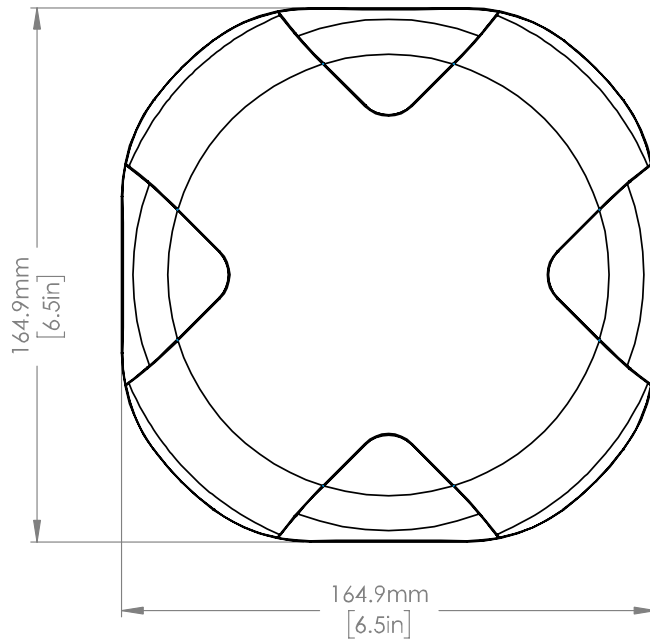
**NOTE:** Cellular signal strength affects data throughput (speed). Coax cables have a loss spec defined in dB/meter. The longer the cable, the more loss, the more attenuation to cellular signals, resulting in lower effective data throughput.

To achieve maximum data throughput, select the shortest cable length kit option that fits each site installation.

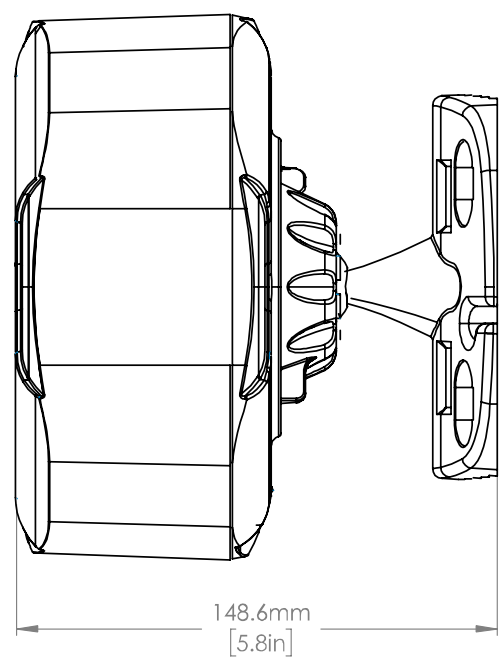
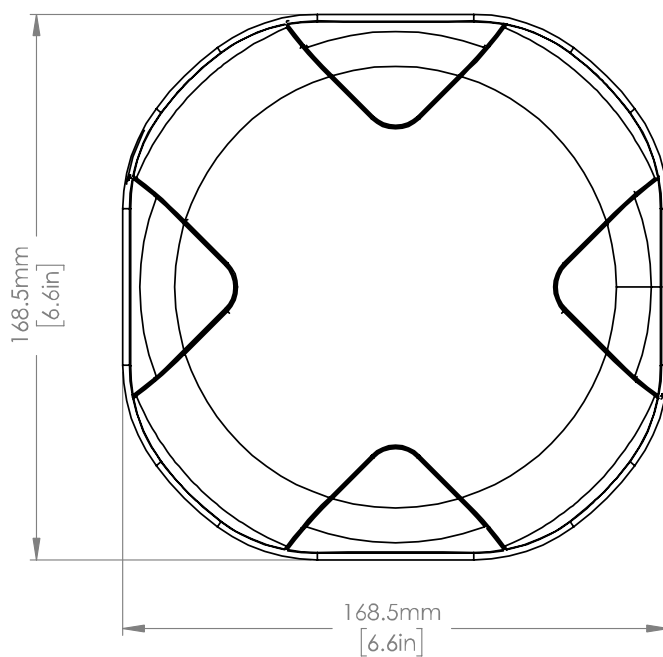


**NOTE:** The total coax cable length for each kit is the 3 m integrated cable plus the extension cable. For example, the 80500-0214-G01 kit total cable length is 3 + 10 = 13 m.

LTE Dual Antenna



5G/LTE Quad Antenna



## About Silicom Ltd. Connectivity Solutions

Silicom Ltd. is an industry-leading provider of high-performance networking and data infrastructure solutions. Designed primarily to improve performance and efficiency in Cloud and Data Center environments, Silicom's solutions increase throughput, decrease latency and boost the performance of servers and networking appliances, the infrastructure backbone that enables advanced Cloud architectures and leading technologies like NFV, SD-WAN and Cyber Security. Our innovative solutions for high-density networking, high-speed fabric switching, offloading and acceleration, which utilize a range of cutting-edge silicon technologies as well as FPGA-based solutions, are ideal for scaling-up and scaling-out cloud infrastructures.

Silicom products are used by major Cloud players, service providers, telcos, and OEMs as components of their infrastructure offerings, including both add-on adapters in the Data Center and stand-alone virtualized/universal CPE devices at the edge.

Silicom's long-term, trusted relationships with more than 150 customers throughout the world, its more than 400 active Design Wins and more than 300 product SKUs have made Silicom a "go-to" connectivity/performance partner of choice for technology leaders around the globe.

## Learn More

Silicom's family of scalable, modular uCPE products with LTE and 5G connectivity:

<https://www.silicom-usa.com/cats/edge-networking-solutions/edge-cpes/>