

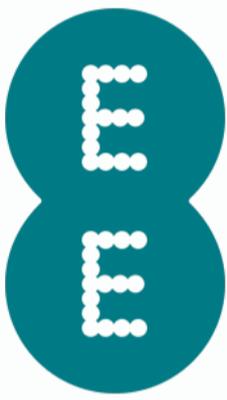
EE Adopts LGMM For Connected Vehicle System

Case Focus

The Challenge

EE – the operator behind the UK’s largest mobile network – in response to increasing demand for mobile data in commercial vehicles, created the Connected Vehicle system that offers an integrated high speed mobile data solution. With the Connected Vehicle using the latest vehicular modem in conjunction with EE’s superfast 4G broadband, the hunt was on to bring an antenna to the table that could integrate MiMo 4G, WiFi and GPS all while being able to stand up to life on the road.

The Client

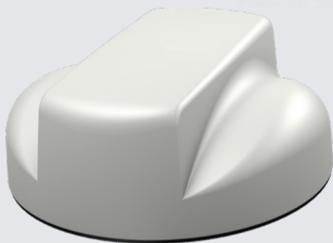


EE has committed to transforming mobile vehicular communication with their connected vehicle solution. Their 4GEE Connected Vehicle service offers an integrated system that fits a 4G modem into a business vehicle, enabling wireless network communication even in remote areas. EE takes care of kitting out a Connected Vehicle, from installation by a trained team of specialists, through to technical and field support. The service also provides remote management facilities, such as fleet status, remote monitoring, diagnostics and more. As the operator of the UK’s largest cellular network, EE have the perfect combination of hardware and network coverage for creating a truly connected vehicle.

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The Antenna

LGMM-7-27-24-58



The LGMM-7-27-24-58 antenna proved to be an exceptional choice for EE’s requirements. This combination antenna features two high-performance MiMo/diversity cellular elements covering the 698-2700MHz range, as well as two dual-band MiMo 2.4/5.8GHz WiFi elements. In addition to this, the housing also contains a high performance GPS antenna with a 26dB LNA that provides a stable positioning signal even in challenging environments. As the antenna does not require a ground plane, mounting options for attaching the unit onto a vehicle are greatly increased. Needing only a single hole to mount, the LGMM range can be attached with a purpose-designed flexible spacer that accommodates the antenna on uneven surfaces such as a ribbed van roof or curved roof.

The Solution

Striving to understand EE’s technical needs, and provided support throughout initial trials with the LGMM as part of the Connected Vehicle project, Panorama was able to present EE with a ‘pre-defined’ antenna solution that performs predictably and reliably straight out of the box. In addition, the ‘all-in-one’ design approach to the LGMM-7-27-24-58 not only makes installation easier, but keeps the antenna rugged and weatherproof.

The LGMM-7-27-24-58 provides a complex antenna system that can be easily fitted to a vehicle using just a single hole. This enables EE’s team of technicians to quickly and securely install the antenna without the need for multiple holes, thereby preserving vehicle bodywork and keeping installation time to a minimum. In addition, Panorama was able to offer a specially designed range of mounts that allow it to be mounted of different types of vehicle. The SAB-207 adaptor, for example, allows the antenna to mount above the boot of a car, whilst the LGMM-EXTR provides a versatile flexible spacer that allows the antenna to be fitted to uneven vehicle roofs. These added mounting options greatly increase the versatility of the antenna, enabling EE greater flexibility in adapting their solution to a more diverse range of vehicles.

