



## VEHICLE ANTENNA SOLUTIONS



Based near Liverpool in the United Kingdom, Sure Antennas has over 35 years experience in specialist Vehicle Antenna Design.

Sure Antennas has deep roots in Radio Frequency Communications, having collaborated with various government and defence departments around the world to offer vehicle antennas that meet the highest standards. When providing the necessary connections, we always take into consideration the vehicle's installation, ensuring that end users achieve the connectivity they need while keeping the installation process as simple as possible.

We are the only antenna company that truly offers different levels of covert antennas for vehicles and can discuss custom options if required. We are committed to providing a realistic outcome of performance while maintaining the standard factory look of your vehicle.

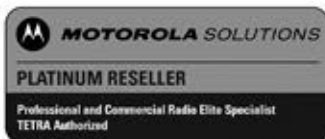
At our state-of-the-art Innovation Centre, we work closely with vehicle converters and manufacturers to refine and develop our products, while minimising damage and making installations easier.





## WHAT WE DO

Sure Antennas' core focus is on delivering innovative vehicle antenna solutions that offer industry-leading performance for multiple transmitting devices in a vehicle. We provide antenna solutions for both marked emergency service vehicles and fully covert applications. Sure Antennas also manufactures a range of accessories including custom Coax Cabling, Multiplexers, and mission-critical radio accessories.



Compatible with



## 4G/5G 4x4 MiMo Heavy Data Antenna

Change your voice communication antennas and future-proof your vehicle for use with new emerging 4G/5G Data technology. Enable capabilities such as live streaming video from CCTV cameras or Telemetry.

### The 'Sandcastle'



Ready



AIRWAVE  
Approved

Compatible with:

cradlepoint



R1900 5G Router

SIERRA  
WIRELESS



AirLink XR90



Available with varying combinations of functions.

- ✓ 4x LTE 2G 3G 4G 5G Connections
- ✓ Ultra Wide Bandwidth 700MHz - 6000MHz
- ✓ Optional MiMo Dual Band WiFi/WiMAX
- ✓ Supports Optional UHF/VHF Whips

- ✓ Up to 15 Functions In One Antenna
- ✓ Optional multiple GPS/GNSS connections
- ✓ Simple Single Hole Installation
- ✓ High Gain 4G / 5G

Scan here for full  
Product Data Sheets



The Sandcastle Antenna can be supplied in a variety of function combinations to suit the equipment in your vehicle. If you don't see the connections you are looking for please get in touch with our team to see what we can create for you.



# 4G/5G 2x2 MiMo Shark Fin High Gain Antenna

Future-proof your vehicle fleet by upgrading to multi-functional antennas, eliminating the need for on-glass antennas that transmit from inside your vehicle.

Compatible with:

cradlepoint



R920 Router

SIERRA WIRELESS



XR80 Router

## The 'Mallard'



Available in various configurations

- ✓ 2x LTE 2G 3G 4G 5G Connections
- ✓ Ultra Wide Bandwidth 700MHz - 6000MHz
- ✓ Low Profile OEM Styled Sharkfin
- ✓ Optional Multiple GPS/GNSS Connections
- ✓ Up to 9 Functions In One Antenna
- ✓ Optional MiMo Dual Band WiFi/WiMAX
- ✓ Simple Single Hole Installation
- ✓ Supports Optional UHF/VHF Whips

Scan here for full  
Product Data Sheets



The Mallard Antenna can be supplied in a variety of function combinations to suit the equipment in your vehicle. If you don't see the connections you are looking for please get in touch with our team to see what we can create for you.



## COVERT VEHICLE ANTENNA SOLUTIONS



Sure Antennas can offer a specialised service to create fully covert vehicle antenna solutions for any transmitting communicating device. We can also create multiple function antenna systems if you need multiple devices fitted to a vehicle. We offer a range of bespoke antenna, from Roof Racks to OEM-style universal antennas with bespoke Multiplexers, Duplexers, or Custom Coaxial Cables.

Unique to Sure Antennas is our Modified OEM car antennas tailored to suit your vehicle perfectly and provide the antenna functions you need for your transmitting equipment. This makes our antennas ideal for surveillance or other mission-critical situations. Once modified, the vehicle antenna will transmit and receive within the desired frequency you need for your equipment, while maintaining the original appearance and features of your vehicle, such as GPS, GSM, and SOS Calling.

When tested alongside on-glass alternatives, our modified OEM covert antennas have proven to offer up to an 80% increase in range as they are on the outside of the vehicle. Sure Antennas is proud to offer a bespoke service that caters to just one vehicle or multiple vehicles.

### How It Works

Sure Antennas offer a 'Covert Supply and Modify' or 'Covert Modify Only' service.

**'Covert Supply and Modify'** allows us to deliver like-for-like OEM antenna components, modified with your added functions.

**'Covert Modify Only'** is a service that allows you to send us the original OEM antenna components of the vehicle while in build, and we return them modified with the required functions.



## NO DRILL FITTING KIT

Easy antenna installation without drilling your vehicle roof.



### OEM Antenna Repositioning Kit

- ✓ No drilling needed
- ✓ Retains vehicle resale value
- ✓ Ideal for limited roof space
- ✓ Stops Interference

Scan here to find  
out more

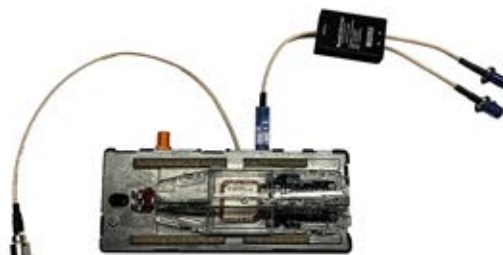


Exclusively to Sure Antennas is our No Drill OEM Antenna repositioning kit, designed to facilitate the installation of our Sandcastle, Mallard, and Full Covert antennas onto your vehicle.

We have developed a range of kits for every vehicle equipped with a factory-fitted OEM antenna on the roof, whether it's a sharkfin style or a whip style antenna. These kits are designed to separate the OEM antenna from your mission-critical antenna, preventing interference with today's sophisticated vehicle technology. This separation helps prevent error messages on a modern vehicle's dashboard caused by transmitting 4G or Tetra radio signals.

## EXAMPLES OF OEM ROOF ANTENNA

2023 Volvo XC60 Sharkfin Antenna



2024 Toyota Corolla Sharkfin



2020 Skoda Superb Sharkfin



Shown above are examples of popular antenna modifications carried out by Sure Antennas recently. Please contact us for more vehicle manufacturers and your frequency requirements so we can create a bespoke vehicle antenna solution to suit your needs.

### Available Functions for this form factor:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> GPS: 1575 MHz               | <input checked="" type="checkbox"/> UHF: Custom frequencies      |
| <input checked="" type="checkbox"/> TETRA: 380-430 MHz          | <input checked="" type="checkbox"/> Cellular: Custom frequencies |
| <input checked="" type="checkbox"/> LTE: 890-960, 1750-1890 MHz | <input checked="" type="checkbox"/> WiFi: 2.4 GHz                |
| <input checked="" type="checkbox"/> VHF: Custom frequencies     | <input checked="" type="checkbox"/> Other custom frequencies     |



## ROUTER & VEHICLE TECHNOLOGY COMPATIBILITY

Our antennas are meticulously designed to ensure full compatibility with all routers and vehicle technology. Below is a demonstration of compatibility with commonly used vehicle technology. Please note that this list serves as a demonstration and if your requirements differ, we encourage you to get in touch to discuss the best solution for your needs.

Our antennas are also Airwave approved meaning they are ready to use with current TETRA systems whilst future-proofing your vehicle in preparation for heavy data routers.

### Motorola M500

- ✓ Fully compatible with both the 'Mallard' and 'Sandcastle'
- ✓ In-car Video System
- ✓ ANPR Technology

### 'Mallard' 4G/5G High Gain Antenna

- ✓ Up To 9 Functions
- ✓ Ultra Wide Bandwidth 700MHz – 6000Mhz
- ✓ Optional TETRA Whip



### Sierra Wireless XR90 5G Vehicle Router

- ✓ State-of-the-art LTE coverage
- ✓ Retains a static IP address across multiple WAN networks



### Cradlepoint R1900 5G Vehicle Router

- ✓ Certified Vehicle Router
- ✓ Fully Compatible With Both the 'Mallard' and 'Sandcastle'



## TETRA EQUIPMENT AND ACCESSORIES

Sure Antennas are a Motorola Solutions Platinum Partner and offer a range of common vehicle accessories for Motorola Tetra Two Way Radio. If you know the Motorola part numbers you require then contact us for prices and availability.



Motorola Tetra Data Junction Box  
GMLN5089C



Motorola Gooseneck PTT  
RLN4858A



Motorola External Speaker  
RSN4004A



Motorola Visor Mounted Microphone  
GMMN4065



## SURE ANTENNAS ACCESSORIES RANGE



Gooseneck Push-to-Talk button  
SAPTT00



Audio Junction Box  
SAAI006



GPS Antenna Connection Changer SMA-USB  
SAGPSUSB

Allows the  
Mallard and  
Sandcastle antenna  
to connect to a  
USB device.



Visit [www.sure-antennas.com](http://www.sure-antennas.com) to  
view the full range or get in touch  
on [sales@sure-antennas.com](mailto:sales@sure-antennas.com)



# IMPORTANT WAIVER INFORMATION

All information and data in this brochure is providing an indication of typical performance of our products under a common installation type, it does not guarantee performance or suitability for all installation requirements.

It is therefore encouraged all customers should conduct their own tests on a product to establish it is correct for their installation.

Products should only be installed by a qualified installer, familiar with appropriate laws and regulations. We advise customers to consult and comply with the appropriate Sure Antennas installation instructions.

All specifications and product information in this catalogue are subject to change without notice.



More information at [www.theavi.org.uk](http://www.theavi.org.uk)

Sure Antennas is proud to be a Platinum Partner of the Association of Vehicle Installers (AVI), the new voice for the aftermarket vehicle installation industry. The AVI represents all sectors of our Industry including manufacturers, retailers, converters, and installers.

We believe a product is only as good as the installation which is why our engineers adhere to strict assurance standards to ensure that our devices function as intended and do not interfere with normal vehicle operations.



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