

SureAntennas

BUILT FOR CRITICAL COMMUNICATIONS

Product Overview



WHO ARE WE?

Sure Antennas has over 35 years of expertise in specialist vehicle antenna design, with all of our products being manufactured at our HQ near Liverpool, UK. Our core focus is delivering innovative vehicle antenna solutions that provide industry-leading performance for multiple transmitting devices within a vehicle. We cater to both marked emergency service vehicles and fully covert applications, ensuring tailored solutions for a wide range of needs.

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MIMO VEHICLE ANTENNAS

Designed to future-proof the vehicles they are installed on, our antennas have been designed with the Emergency Services Network in mind as well as being Airwave approved to be compatible with the current infrastructure. This means that when the transition to ESN occurs, there will be no need to replace the antenna. These high-performance antennas ensure reliable communication for emergency and public safety vehicles.



Scan here for
more information

The 'SANDCASTLE' Antenna

Product Code 8000-321

This **low-profile, multi-function MIMO** 'Sandcastle' Antenna can support up to **18 functions** through a **single hole installation**.

5 YEARS WARRANTY



AIRWAVE
Approved

ESN
Ready

This antenna is designed to meet the demands of modern communication systems. Fully **Airwave-approved** and **ESN-ready**, it ensures your vehicle is **future-proofed** for evolving network requirements.

It can be **customised** with various function combinations to suit the specific equipment it connects to, providing **unparalleled flexibility**. For applications where the **TETRA whip** is not required, the antenna can be supplied without it.

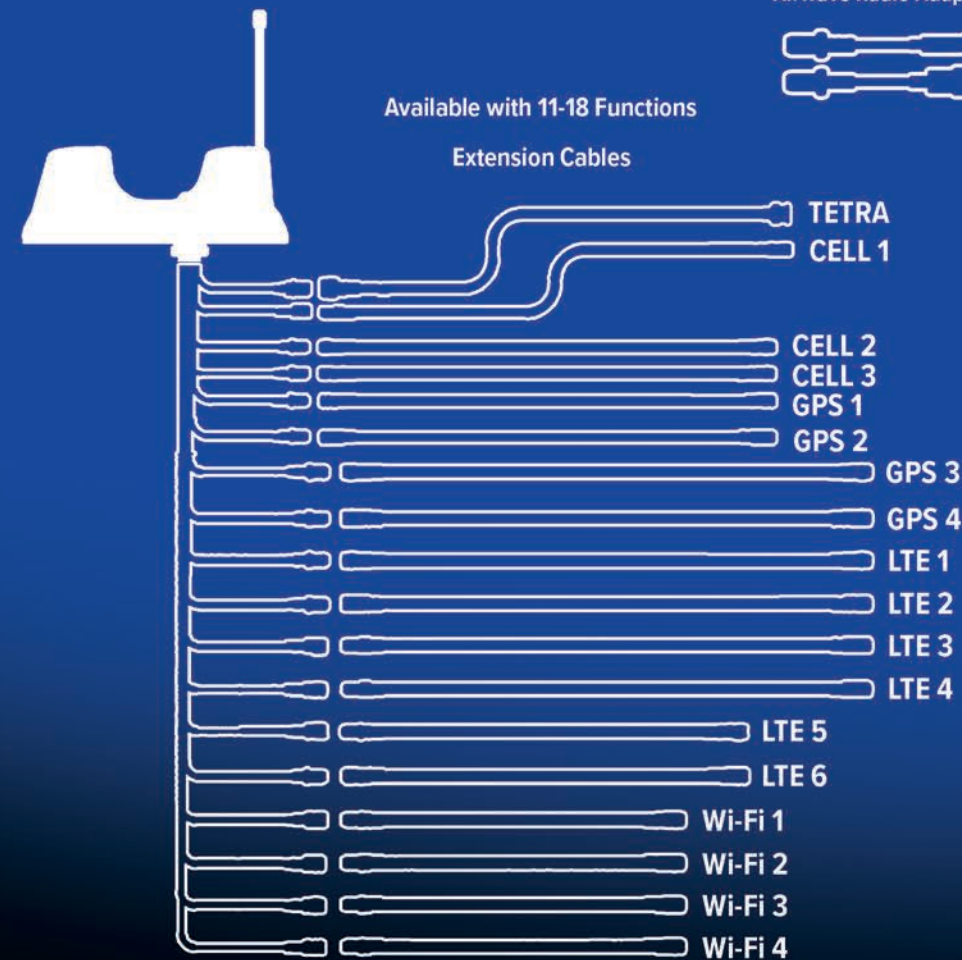
Manufactured with **durability** in mind, the 'Sandcastle' delivers reliable performance in even the most challenging operational environments. Its **robust construction** and **low-profile design** ensure seamless integration with vehicle aesthetics, while its advanced engineering guarantees **consistent connectivity**.

Airwave Radio Adaptors



Available with 11-18 Functions

Extension Cables





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The 'MALLARD' Antenna

Product Code 7000-308

This **low-profile, multi-function MIMO** 'Mallard' Antenna can support up to **9 functions** through a single hole installation.

5 YEARS WARRANTY



AIRWAVE
Approved

ESN
Ready

A versatile choice for modern communication needs, this antenna is fully **Airwave-approved** and **ESN-ready**, the 'Mallard' ensures your vehicle is prepared for **future communication advancements**.

This antenna can be customised with various function combinations to meet specific requirements. Additionally, it is available without the **TETRA whip** for applications where it is not needed.

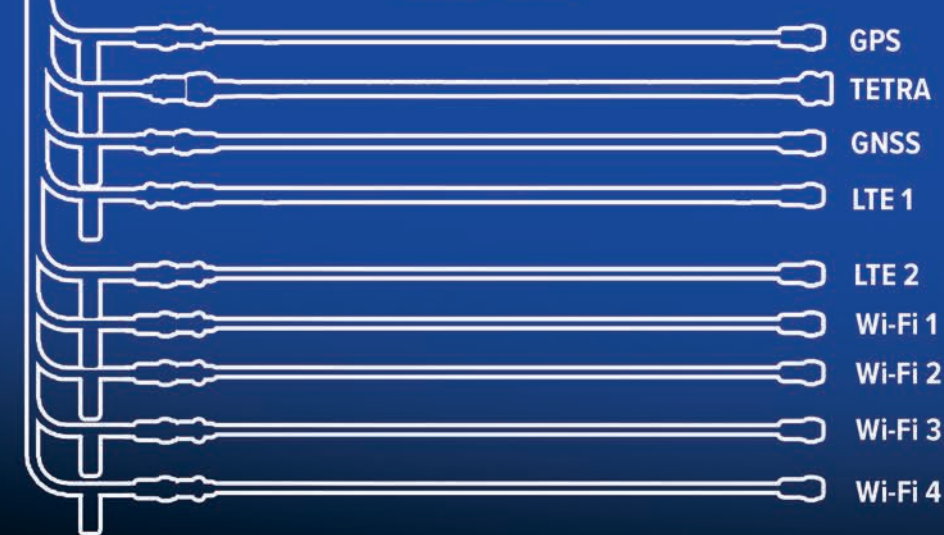
Engineered for reliability and performance, the 'Mallard' is built to endure the **challenging conditions** often faced by emergency service vehicles and other specialised applications. Its **robust design** ensures optimal operation in demanding environments, while maintaining a **sleek and unobtrusive profile**.

Airwave Radio Adaptors



Available with 3-9 Functions

Extension Cables





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High Gain MiMo MOTORBIKE Antenna

Product Code 9000-308

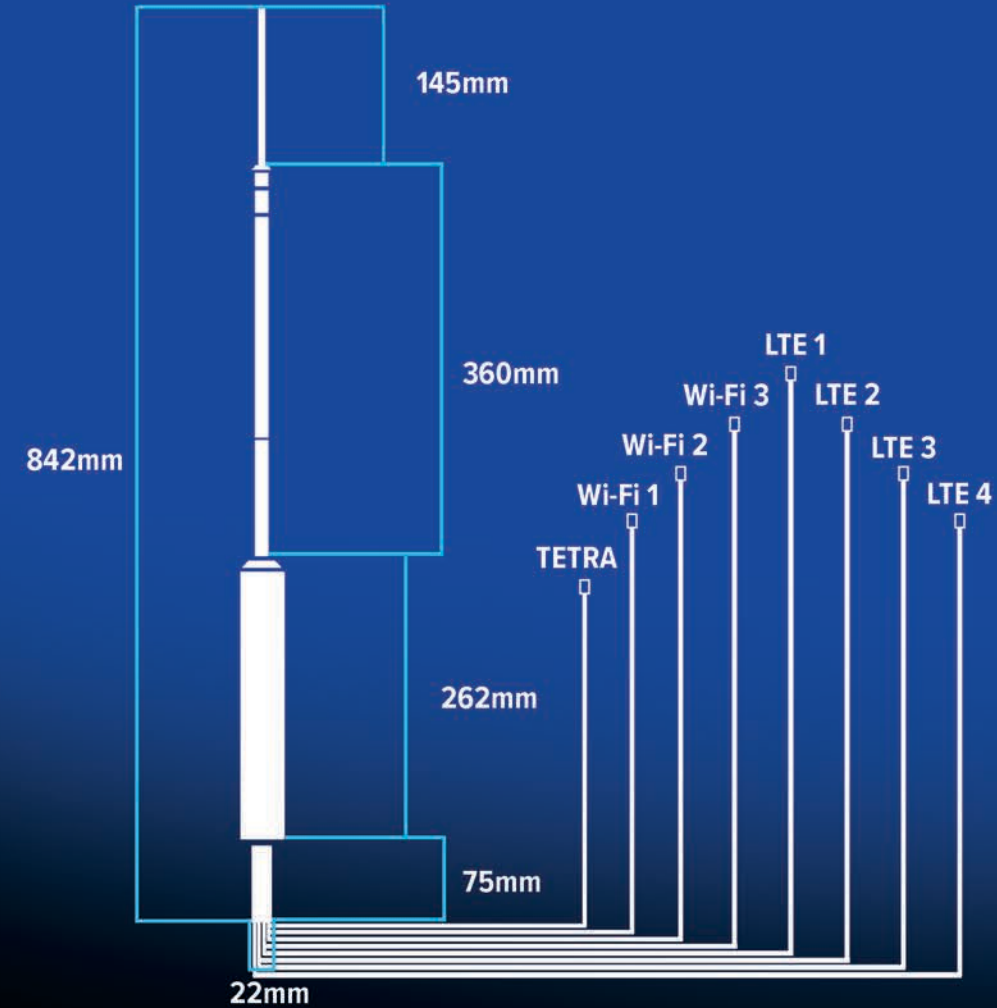
This **High Gain MiMo 8-in-1 Motorbike Antenna** is designed for **emergency service fleets** looking to optimise performance.



This versatile antenna supports **4x LTE**, **3x Wi-Fi**, and **1x TETRA**, ensuring seamless communication across a wide frequency range. Functions are able to be added/removed upon request up to a **maximum of 8**.

Built to withstand harsh weather, it provides reliable performance in **mission-critical environments**. Compatible with most **motorcycle** models, it can be **customised** to meet specific operational needs.

A **future-proof** solution that is **ESN-ready** as well as being fully **compatible** with the current **Airwave network**. Its reliable performance makes it an indispensable tool in the field, ensuring **efficient and effective operations**. For more information, scan the QR code above.





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more information

Compact MiMo MOTORBIKE Antenna

Product Code 9000-208

The **Compact MiMo 8-in-1 Motorbike Antenna** is designed to meet the demanding needs of **emergency service vehicle fleets**, in a strong, robust design.



This antenna incorporates **4x LTE, 3x Wi-Fi, and 1x TETRA** function. It ensures **reliable, seamless communication** across wide frequency ranges, crucial for **mission-critical operations**.

Built with a **compact, robust design**, this antenna withstands harsh weather and daily wear, providing **dependable performance in challenging environments**. Fully compatible with most motorcycle models, it can be **customised** to meet specific operational needs.

A **future-proof** solution that is **ESN-ready** as well as being fully **compatible** with the current **Airwave network**.

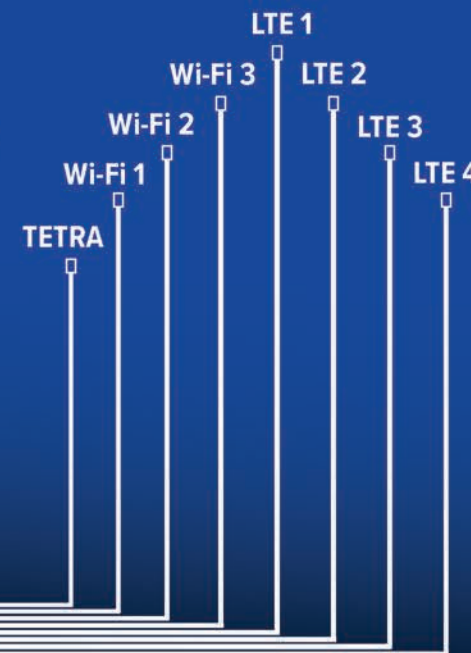
46.5mm



305mm

74.5mm

22mm





COMBINATION ANTENNAS

Sure Antennas' high performance combination antennas offer a simple-to-install solution for various applications. Rugged and durable, our combination antennas are designed to withstand harsh weather conditions and benefit from an IP69K rating. The dual function of our combination antennas makes them an ideal antenna solution for emergency services, public safety and commercial utility vehicles.



Dual Band TETRA & GPS Antenna

Scan here for
more information

Product Code: 5000-210

Experience precise navigation with our **Dual Band TETRA & GPS Antenna**, compatible with **TETRA** and major satellite systems including **GPS**, **QZSS**, **GLONASS**, **BeiDou**, and **Galileo**.



This **compact and durable** antenna guarantees consistent, high-quality signal reception, making it the ideal solution for enhancing **TETRA** and **GPS** capabilities in demanding environments.

Built for **easy installation**, this antenna provides reliable and clear signal reception, ensuring **dependable performance** wherever you need it.

For more information about this antenna and its compatibility, scan the **QR code** above or request a **datasheet** from a member of our team.

Functions: **TETRA & GPS**

180mm

313.43mm





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Semi-Covert Shark Fin Antenna

Product Code: 5000-250

The **Semi-Covert Shark Fin Antenna** is a reliable communication solution for **emergency services**, combining both **LTE** and **GPS** functions.

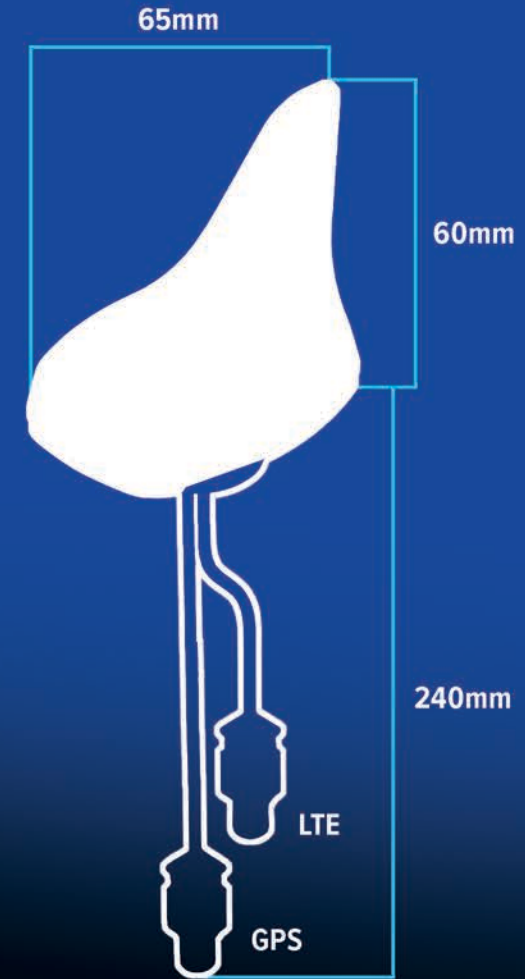


Made from **weather-resistant materials**, it delivers consistent performance in **harsh conditions**, from heavy rain to extreme temperatures. Its durable build **minimises maintenance**, keeping emergency fleets ready for action.

The **aerodynamic shark fin design** allows for **easy installation** on a variety of vehicles. Compact, robust, and precise, this antenna is the **trusted choice** for essential communications.

For more information about this antenna and its compatibility, scan the **QR code** above or request a **datasheet** from a member of our team.

Functions: **LTE & GPS**





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Dual GPS Panel Mount Antenna

Product Code: 5000-102

Experience precise navigation with our **Dual GPS Antenna**, compatible with major satellite systems including **GPS, QZSS, GLONASS, BeiDou, and Galileo.**

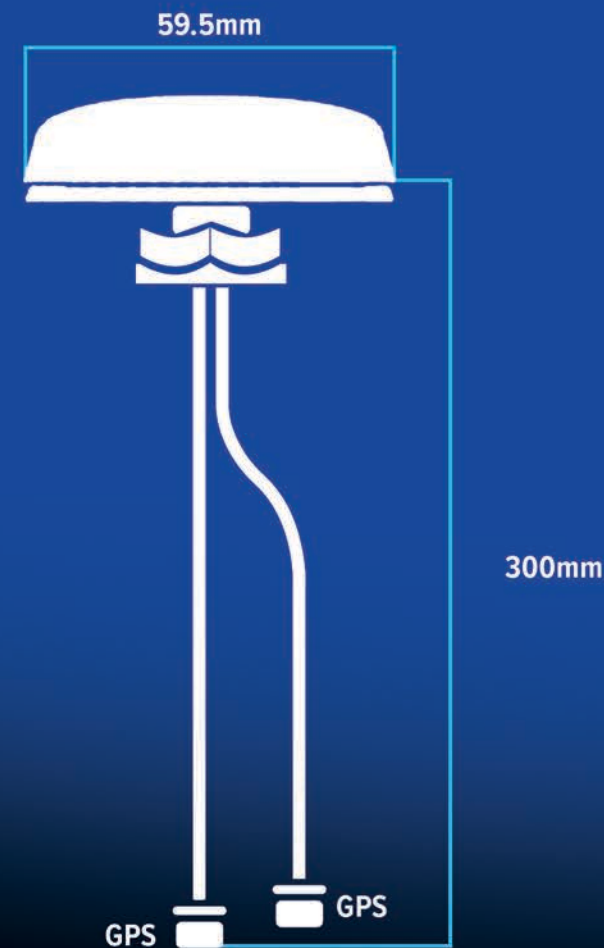


This **compact, durable antenna** features two independent **GPS outputs**, delivering reliable and **high-quality GPS tracking** in even the most demanding environments.

Designed for **easy installation**, it's the ideal choice for **enhancing GPS capabilities**, ensuring **dependable performance** wherever it's needed.

For more information about this antenna and its compatibility, scan the **QR code** above or request a **datasheet** from a member of our team.

Functions: **GPS x2**



COVERT ANTENNAS

Sure Antennas specialises in covert solutions by modifying genuine OEM car antennas to meet specific function requirements, making them ideal for surveillance and mission-critical situations. These modified antennas maintain the vehicle's appearance and we are able to add functions such as TETRA, LTE, GPS and WIFI. Compared to on-glass alternatives, our OEM covert antennas offer up to an 80% increase in range. We provide a bespoke service, offering an OEM modification for any on-roof vehicle antenna. Here are a few examples.





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Audi Antenna MODIFICATION

This **modified**, panel-mounted antenna is expertly designed to integrate seamlessly with your **Audi**, enhancing its **covert capabilities** without compromising the **OEM vehicle appearance**.



Tailored to accommodate a wide range of **frequency bandwidths**, it offers exceptional performance while maintaining a **fully covert appearance**.

To ensure a seamless finish, each antenna is meticulously **painted to match the exact colour** of your vehicle. This attention to detail ensures the antenna **blends perfectly with the car's aesthetics**, preserving its **original design and appearance**.

Every antenna is **precision-engineered** and professionally tailored to the **required frequency**. Before leaving our facility, each unit undergoes **rigorous testing** to ensure superior performance.

Available functions include: **LTE, Wi-Fi, GPS, TETRA**

Custom Function Options

- LTE
- TETRA
- GPS
- Wi-Fi





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BMW Antenna MODIFICATION

This **modified**, panel-mounted antenna is specifically designed to complement the **covert** nature of your **BMW**, while providing **exceptional performance**.



Customisable to accommodate a wide range of **frequency bandwidths**, it ensures seamless integration with your vehicle's **OEM functions** without compromising appearance.

To maintain the vehicle's original aesthetics, each antenna is expertly **painted to match the exact colour** of your **BMW**.

Every antenna is specifically **tailored to your required frequency** and rigorously tested to meet the exact **requested specifications**. For added convenience, a **fitting kit** can also be provided upon request, ensuring a straightforward and secure **installation process**.

Available functions include: **LTE, Wi-Fi, GPS, TETRA**

Custom Function Options





Volkswagen Antenna MODIFICATION

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This **OEM Shark Fin Mount Antenna** is commonly fitted to a range of **Volkswagen, Cupra and Skoda** vehicles. It can be **modified** to add additional functions, ensuring the **OEM functions** are also retained.



This antenna can be **customised** to support **single or multiple functions**, as well as allowing your antenna to retain its **existing features** provided by the car manufacturer.

A variety of **frequencies and functions** are available and each **modified antenna** is able to be tailored to suit your specific **frequency requirements**, as well as a **vehicle paint match**.

Please contact us with your desired **frequency**, and our team will be happy to discuss **compatibility** and ensure we provide the **perfect fit** for your vehicle.

Available functions include: **LTE, Wi-Fi, GPS, TETRA**

Custom Function Options

LTE

TETRA

GPS

Wi-Fi





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Volvo Antenna MODIFICATION

This **modified antenna** is designed to complement a range of **frequency bandwidths**, ensuring the **covert** nature of your **Volvo** is maintained. Various additional functions are available.



Custom-painted to match your vehicle's colour, this antenna offers both **seamless integration** and **high performance**. The antenna is also **painted** to match the vehicle's colour, ensuring your **covert appearance** is maintained.

Each antenna is **tailored to your specific frequency requirements** and modified accordingly, while maintaining the vehicle's **OEM functions**.

All antenna functions undergo **rigorous testing** by our technicians to ensure they meet the **necessary specifications** before despatch, providing a reliable and **customised solution** for your vehicle.

Available functions include: **LTE, Wi-Fi, GPS, TETRA**

Custom Function Options

TETRA —
Wi-Fi —
GPS —
LTE —





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Front & Rear BUMPER Antenna

Product Code: SASA10020-4

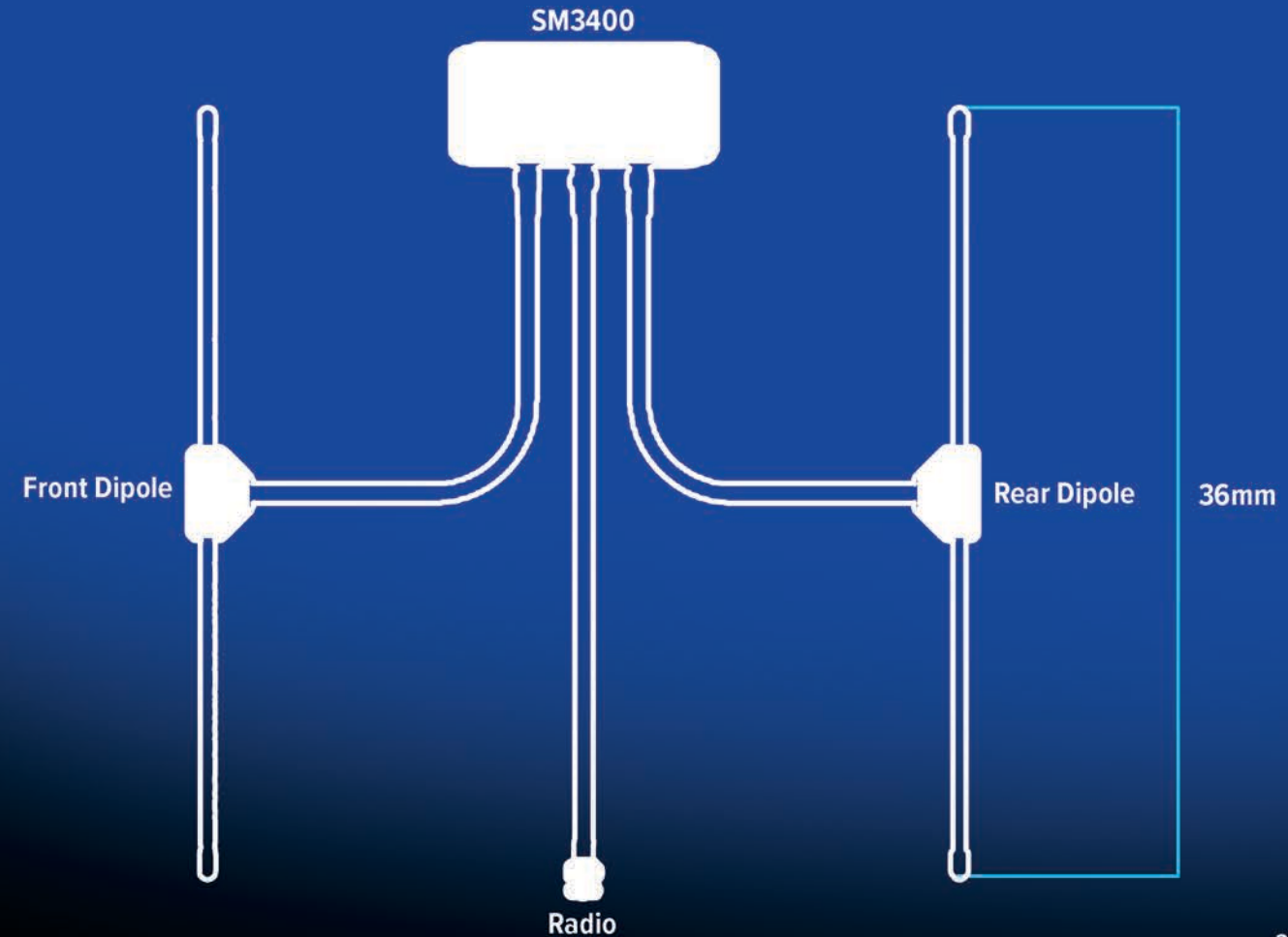
The **Covert Dipole Front & Rear Bumper Antenna** offers high performance in a **compact design**, ideal for tight spaces. It can be tailored to **suit various functions**.



Perfect for **mounting in vehicle bumpers, rear parcel shelves, or motorcycle panniers**, this antenna delivers **reliable performance** without the bulk of traditional antennas.

Available with **customisable coax lengths and terminations**, the antenna can be tailored to your specific **frequency requirements** for optimal operation.

Each part is **thoroughly tested** to ensure it meets your requirements before despatch, providing a **dependable solution** for any **covert installation**. This antenna is a great option if you wish to **avoid modifying the OEM antenna**.



REPOSITIONING KITS

Sure Antennas offer various OEM antenna repositioning kits that fit a variety of vehicle models. These innovative kits allows you to easily replace your existing antenna with a critical communications antenna, without the need to drill any holes in your vehicle's roof. It provides a simple, non-invasive solution for upgrading your antenna system, ensuring optimal performance for critical communications while maintaining the integrity and appearance of your vehicle. Here are two examples of the many models we can supply. Contact our team for more information.



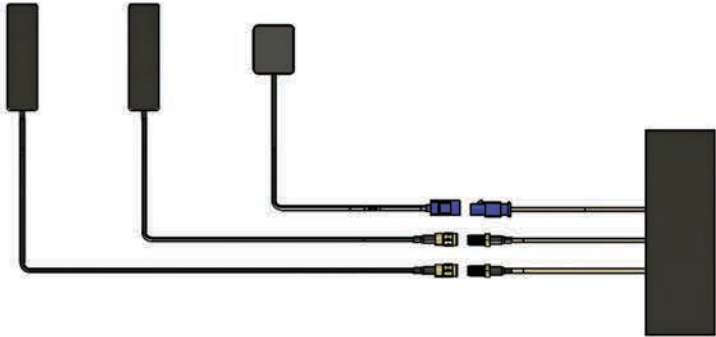


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Volkswagen REPOSITIONING KIT

Product Code: SK030115

The **OEM Antenna Repositioning Kit for VAG Group Models** (including Volkswagen, Skoda & Cupra) is a practical solution designed to **replace the existing antenna** with a critical communications antenna.

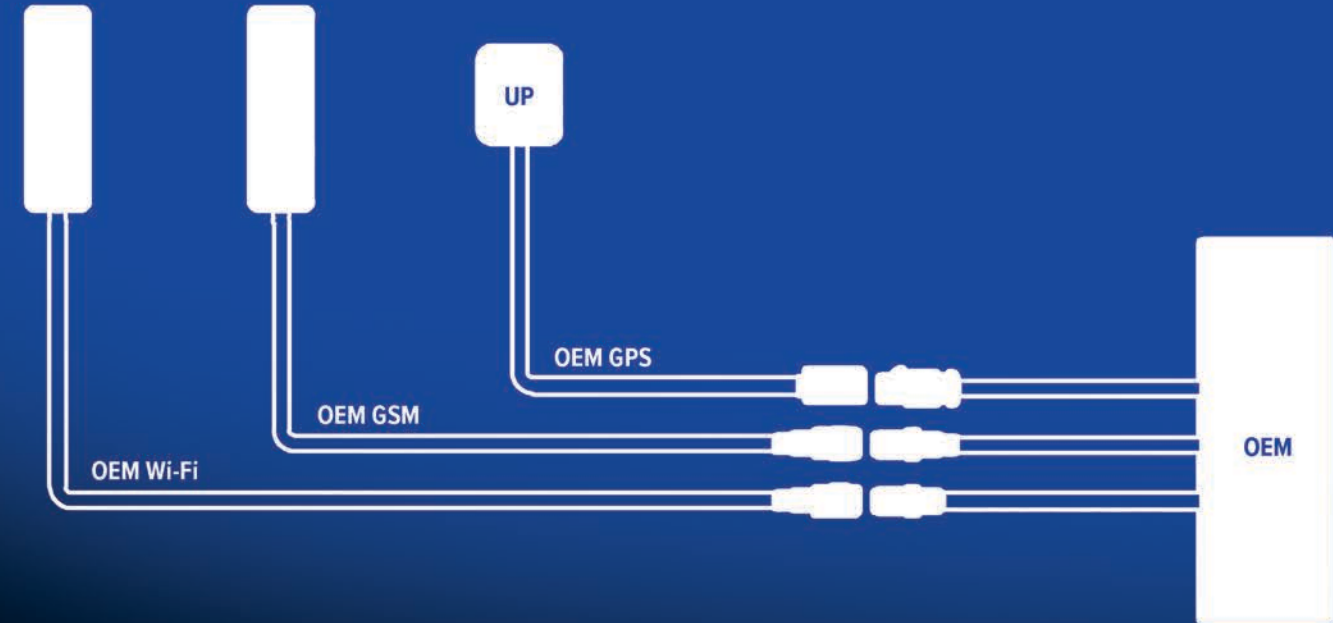


This kit allows you to **free up valuable roof space** on your vehicle, providing the ideal location for the installation of **critical communications** equipment, enhancing the **vehicle's functionality**.

The system is designed as a **“Plug and Play”** solution, ensuring **straightforward installation** with **no error messages** appearing on the dashboard.

As this solution is an **efficient** and reliable way to optimise roof space, **the vehicle's aesthetic and functionality** can therefore be maintained.

Repositioning kits for **other vehicle models** are also available. Please **contact us** for more information.





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Volvo REPOSITIONING KIT

Product Code: SK030111/SK030112

Our **OEM Antenna Repositioning Kits** are designed for popular blue light **Volvo vehicle models**, allowing you to reposition the **OEM shark fin antenna** and replace it with **internal window-mount antennas**.

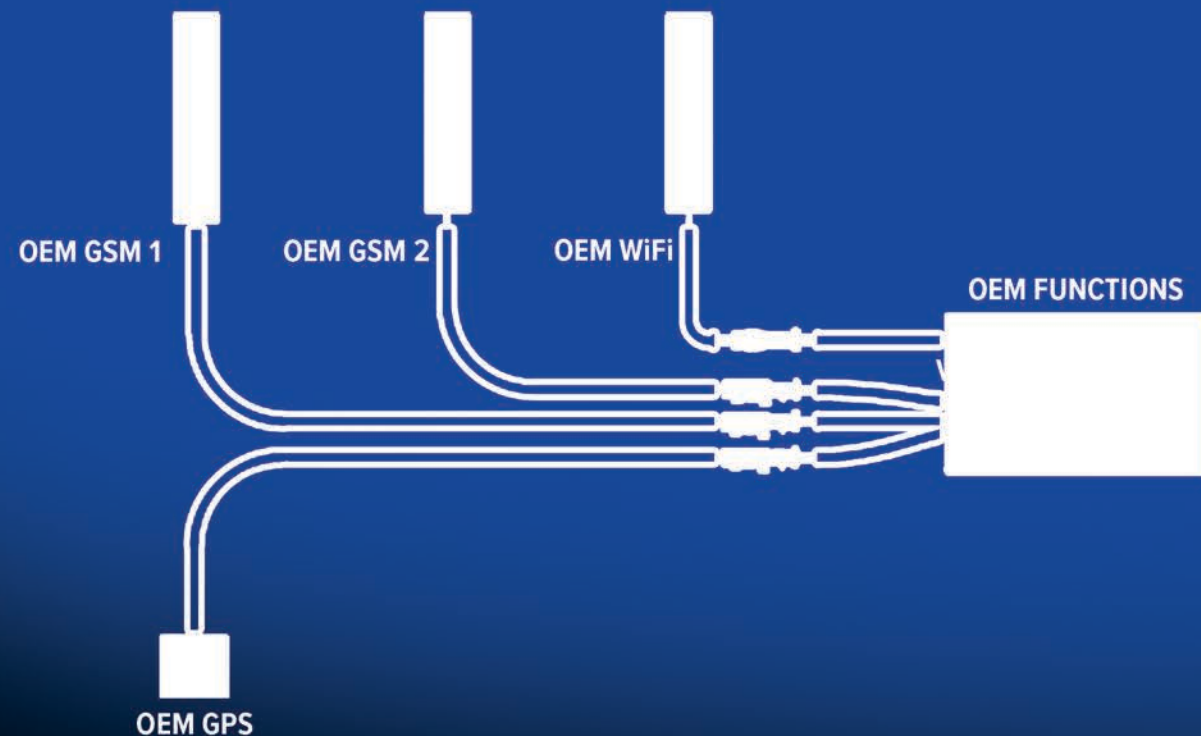


The provided **Volvo antenna mount plate** enables the installation of our '**Mallard**' and '**Sandcastle**' antennas, maintaining **OEM integrity** with automotive **Fakra connections**.

When paired with our antennas, this kit ensures your vehicle **retains all OEM functions**, while being **ESN-ready** & keeping the existing **Airwave system intact**.

Additionally, we offer **coaxial cable kits** to ensure **compatibility** with various vehicle modems, CCTV, telemetry, and other **communication devices**, making this an **all-encompassing solution** for your communication needs.

Repositioning kits for **other vehicle models** are also available. Please **contact us** for more information.



VEHICLE ROUTERS



We supply reliable vehicle routers from leading manufacturers, including Ericsson, Cradlepoint, and Teltonika, for emergency service operations. These routers deliver seamless connectivity, robust performance, and secure communication, ensuring mission-critical operations remain uninterrupted during transit.



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CRADLEPOINT Vehicle Router

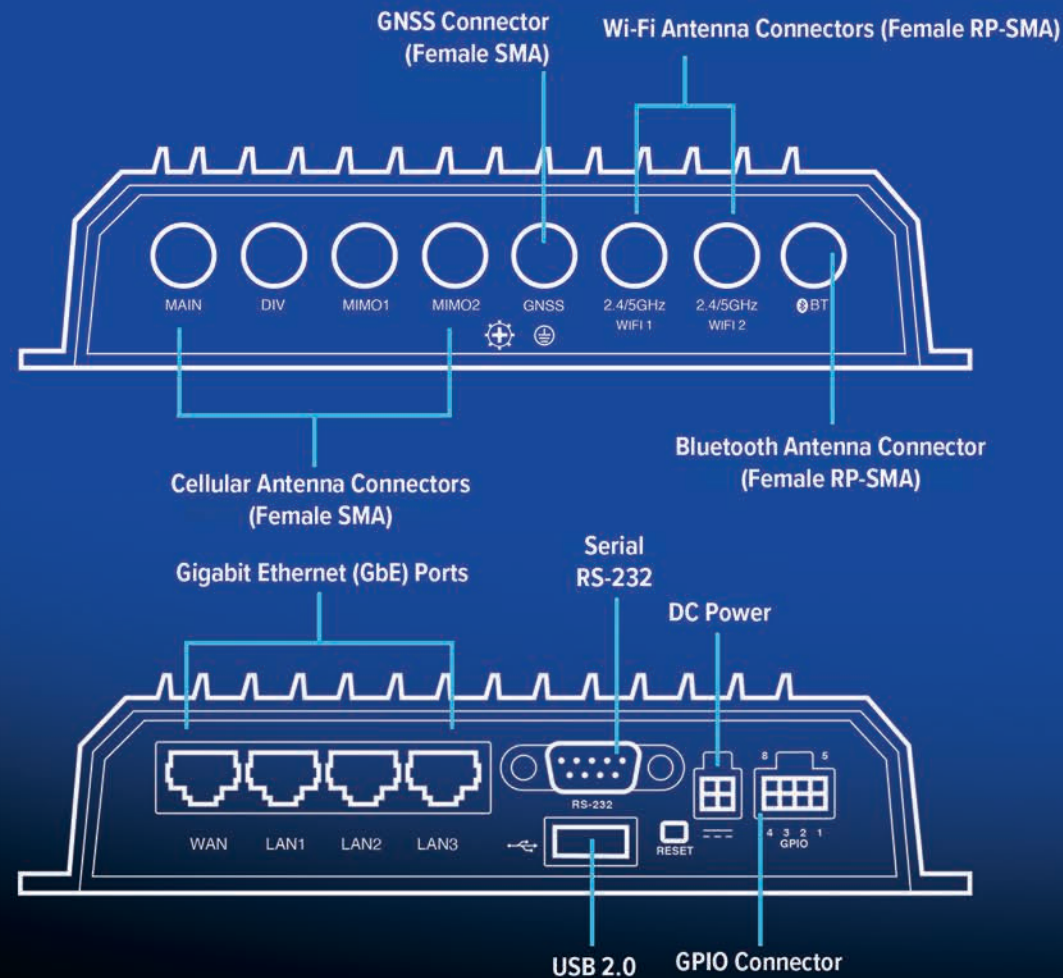
Product Code: R1900

This **Ericsson Cradlepoint Router** is engineered to meet the demanding needs of **emergency service fleets**, providing uninterrupted vehicle signal during **mission-critical operations**.

The **Cradlepoint R1900** is a rugged, all-in-one **5G mobile router** built for in-vehicle and field deployments that demand **high performance** and constant connectivity. It supports full **5G and Gigabit LTE, Wi-Fi 6**, and a powerful quad-core processor to deliver **ultra-fast, low-latency networking** on the move.

With **dual-SIM capability, GNSS with dead reckoning**, and seamless integration with **Cradlepoint NetCloud**, the R1900 ensures reliable, **secure**, and intelligent connectivity wherever it's deployed.

Additional Cradlepoint Routers are available, including the **IBR900 & IBR1700**. Contact us for more information.





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TELTONIKA Vehicle Router

Product Code: RUTM52

The **RUTM52** is a **dual-SIM**, multi-network router designed specifically with **emergency service operations** in mind.

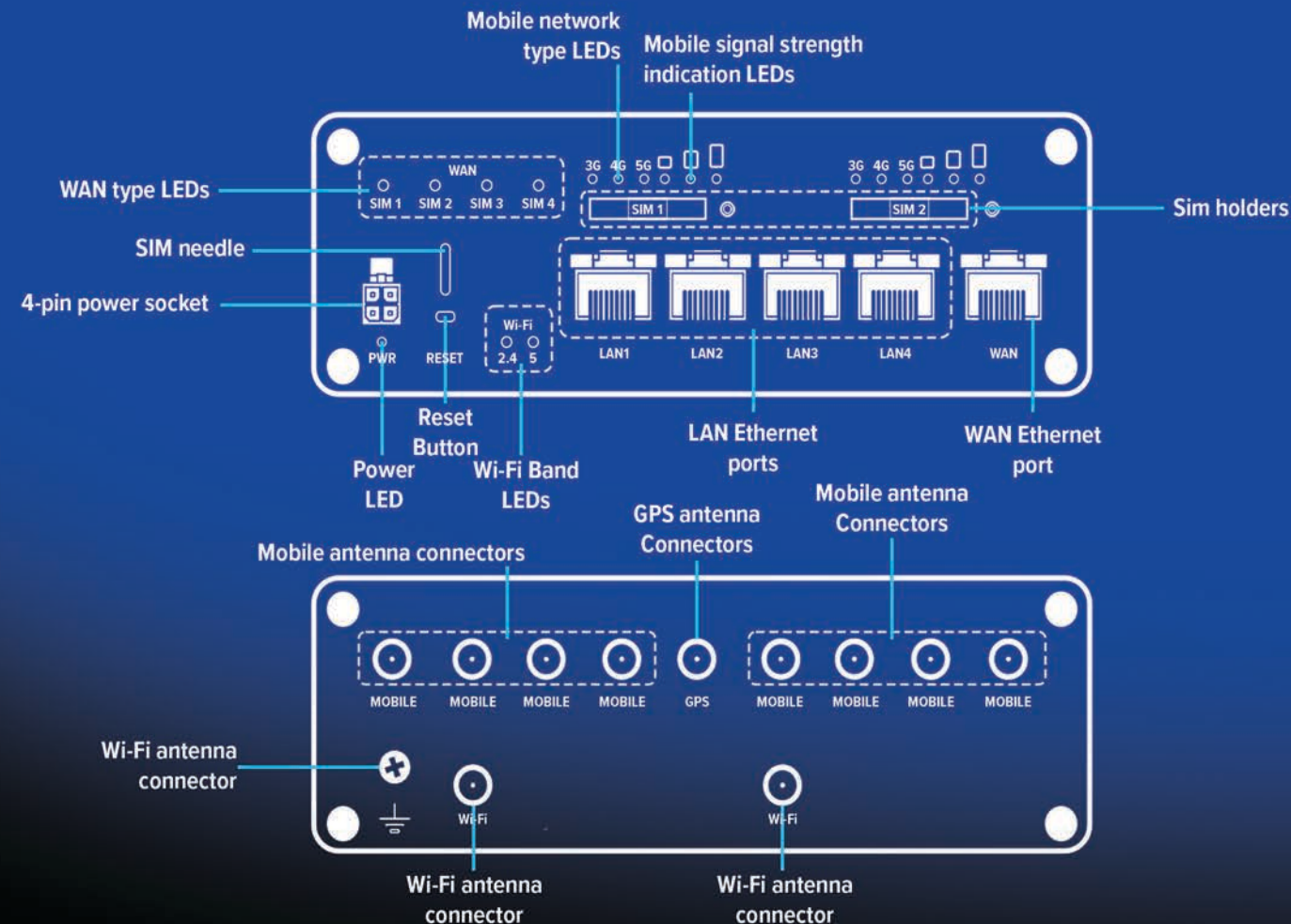


With **dual 5G modem support**, the **RUTM52** ensures ultra-reliable, high-speed data transmission. Ideal for mission-critical and industrial applications in even the most demanding environments.

Equipped with **5 Gigabit Ethernet ports** and **dual-band Wi-Fi**, the router offers robust **connection redundancy** and **automatic failover**, delivering uninterrupted network performance for businesses that require maximum uptime.

It also features **backward compatibility** with 4G networks and supports a wide range of **interfaces and industrial protocols**.

Other available Teltonika routers: **RUT200**, **RUT906** & **RUTX50**



COAX CABLES

In addition to our antenna solutions, Sure Antennas manufacture and supply a comprehensive range of cable assemblies, utilising a variety of high-quality coaxial cables and connectors to suit diverse operational requirements. We supply a variety of coax cables including: LBC100, LBC195, LBC240, and RG316, ensuring optimal performance across a wide range of applications. Our assemblies can be configured with various connector types, such as BNC, SMA, SMC, FME, and FAKRA.



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Cable ASSEMBLIES

We offer a wide range of **custom cable assemblies** tailored to meet your **specific requirements**. All assemblies are **manufactured in-house**, ensuring consistent **quality and performance**.

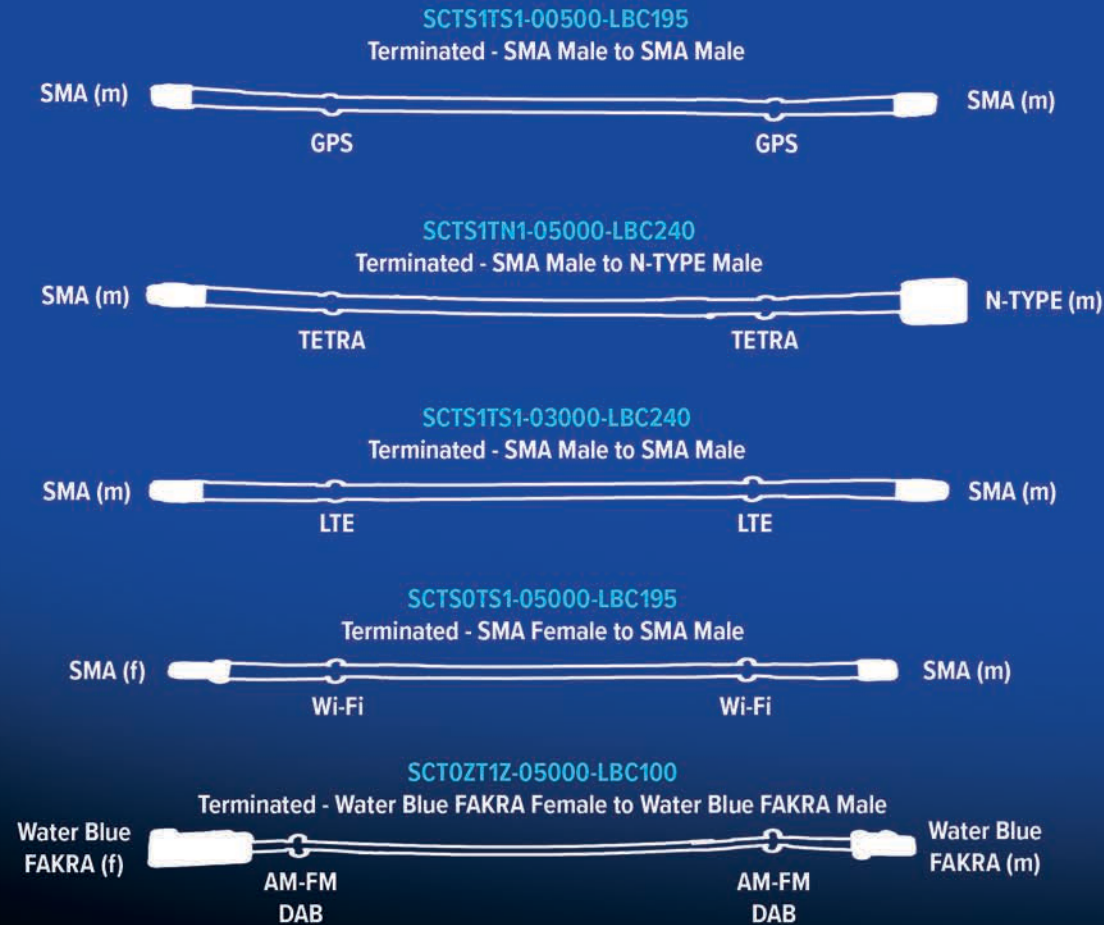


Our **custom cable assemblies** are available in a wide range of coaxial types, including **LBC100**, **LBC195**, **LBC240**, and **RG316**, providing **flexible solutions** for a variety of installation environments.

Each assembly is **manufactured in-house** by our skilled production team, ensuring **consistent build quality**, reliability, and full compliance with **ISO standards**.

A comprehensive selection of **connector options**, such as **BNC**, **SMA**, **SMC**, **FME**, and **FAKRA**, allows seamless integration with **vehicle communication systems**, delivering a fully **tailored connectivity solution**.

Typical **cable assemblies** are shown in the **diagrams** to the right.



VEHICLE ACCESSORIES

Sure Antennas manufacture a comprehensive range of vehicle accessories including Combiners/Dividers, Gooseneck PTT Buttons, Multiplexers and Vehicle Intercom Systems. We are also a Motorola Solutions Platinum Partner and are able to supply a wide range of TETRA Accessories. Here are some of the many that we supply.





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Gooseneck Push-to-talk (PTT)

Product Code: SAPTT00-03000

The **Gooseneck Push-to-Talk (PTT) Button** is designed for **reliable, long-lasting performance**, making it an ideal choice for demanding **communication environments**.

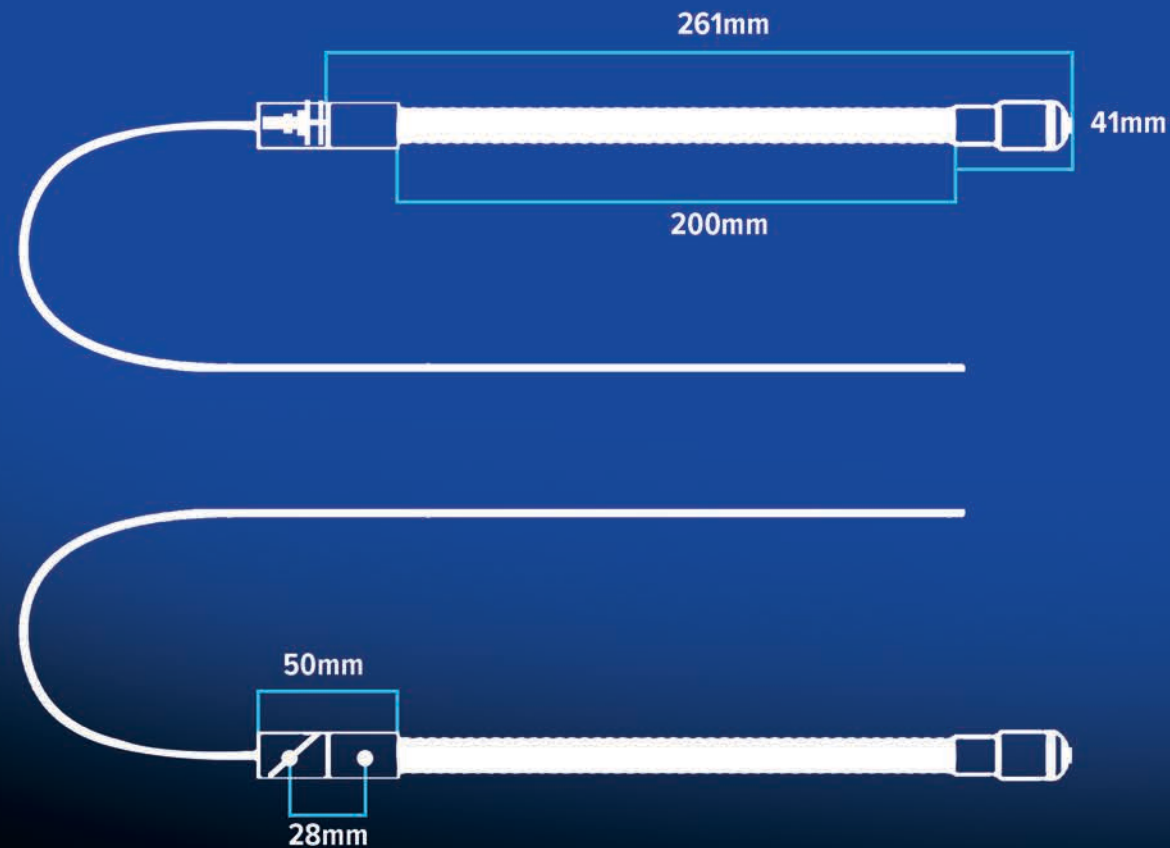


As a **high-quality PTT button**, it ensures clear communication in **critical applications**. We also offer other button colour options including **red** and **black**.

Built with a durable, **long-life switch contact**, this **PTT button** is engineered to withstand heavy use and offer **exceptional reliability**, even in the **toughest conditions**.

Perfectly suited for emergency service vehicles, the **Gooseneck PTT button** provides a **robust and dependable** communication solution. Designed and built by Sure Antennas, it **guarantees quality and performance**.

Also available as part of a **vehicle intercom kit**. Contact our team for more details.





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DMR Radio Interface

Product Code: SAAI006

The **SAAI006 DMR Radio Interface**, also known as an **Audio Junction Box**, is a product designed & built by Sure Antennas.

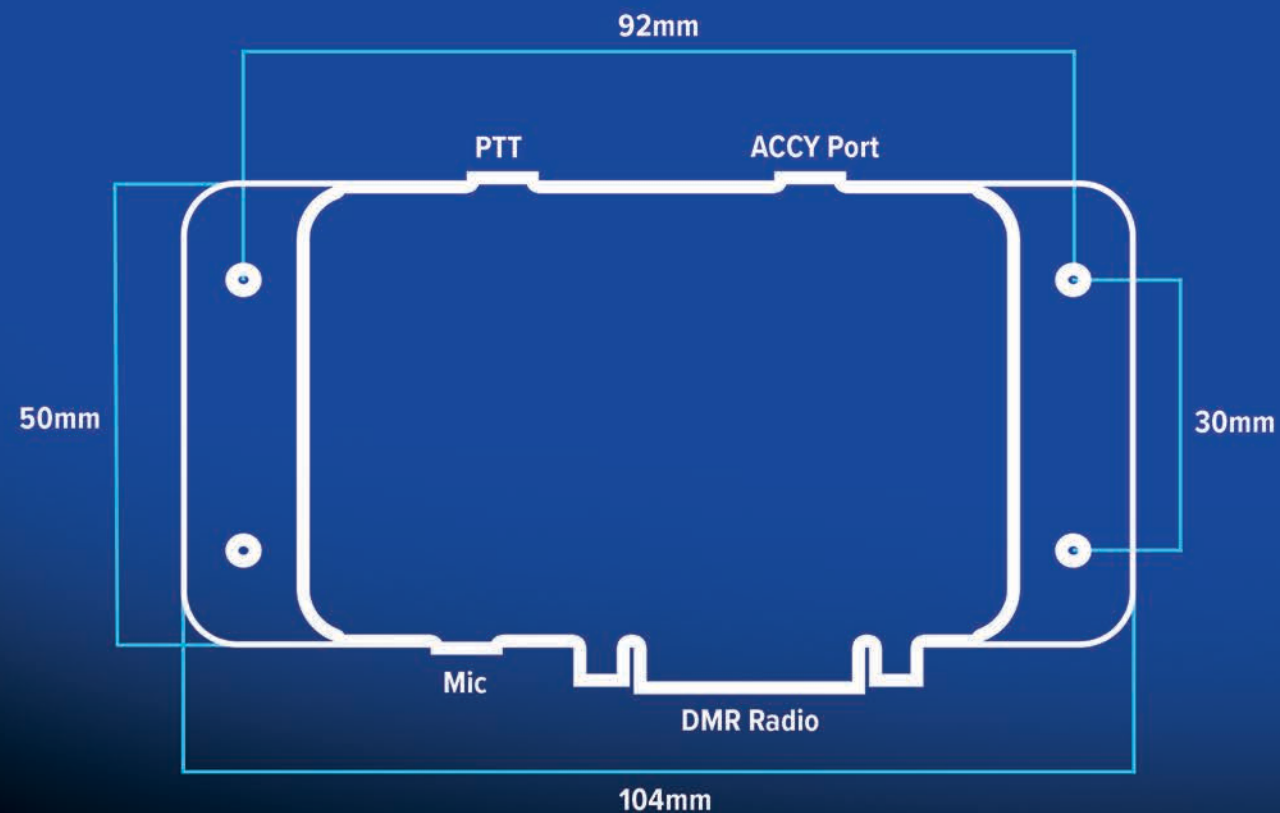


It ensures seamless integration between **Motorola radios** and **external audio accessories**, providing clear communication and durable performance in **demanding environments**.

Enabling **reliable communication**, this **Audio Junction Interface** supports both **DMR** and analog modes for **versatile application** across various industries.

Housed in a **rugged enclosure**, it is designed for both **vehicular and fixed installations**, ensuring durability in demanding environments.

With **advanced audio processing** and noise reduction, it delivers clear communication and **easy status monitoring**.





Combiners/Dividers & Multiplexers

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Sure Antennas manufactures and supplies a wide range of **antenna accessories**, which include **combiners/dividers & multiplexers**.

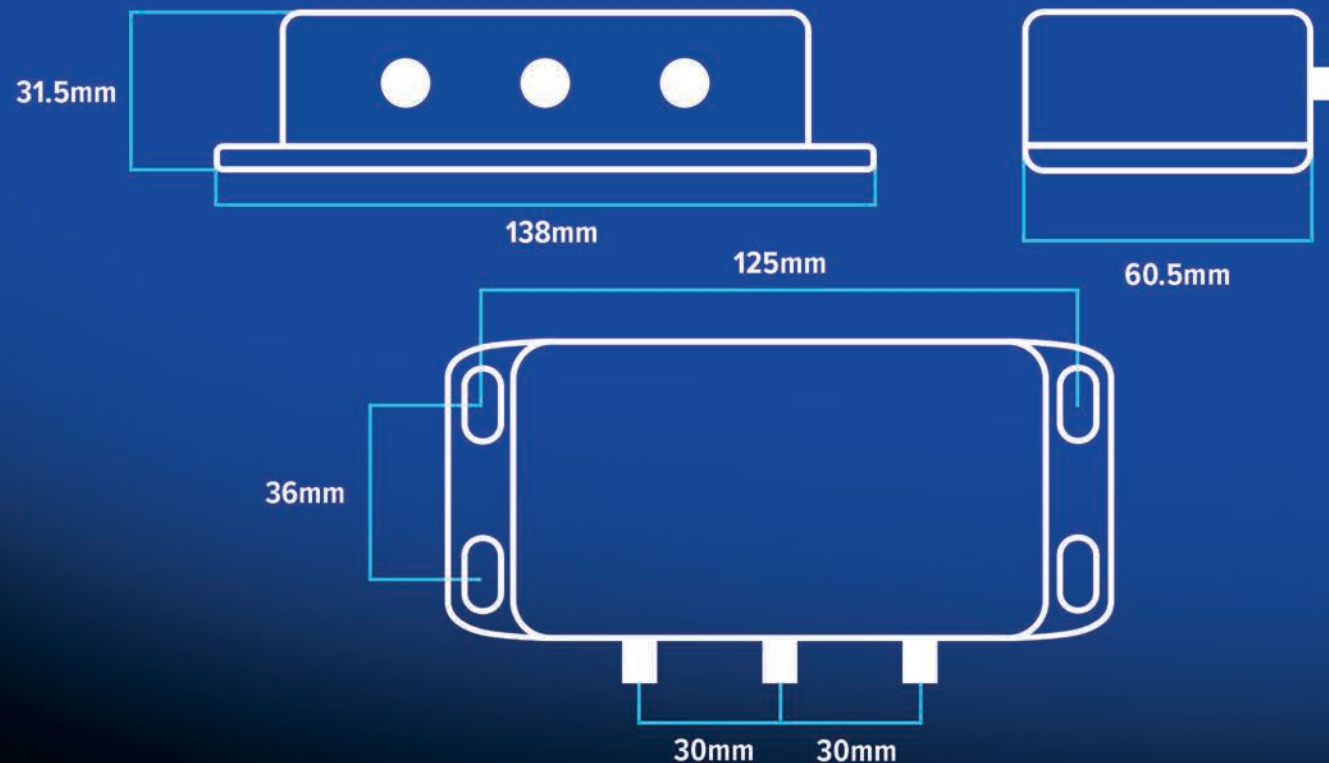


Our **combiner/divider units** manage RF signals by merging **multiple inputs** or **splitting** one across devices, ensuring efficient communication. They support **various frequency bands**, minimise signal loss, and prevent interference, making them essential for **reliable connectivity**.

Similarly, our **multiplexers** allows multiple signals to share a **single transmission line**, reducing cable clutter while maintaining signal integrity. By efficiently managing **RF communication**, it ensures seamless operation for multiple devices within a **vehicle's antenna system**.

Our range includes: SM3000 3 Port Diplexer, SM3300 3 Port Antenna Combiner, SM3400 3 Port Antenna Splitter, SM3400 Combiner/Divider Unit, SM3500 GPS Divider Unit.

SM3400W5050-4 SM3400 Combiner/Divider Unit



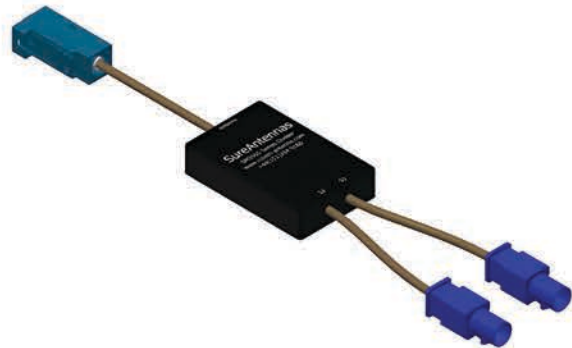


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SM3500 GPS Divider Unit

Product Code: SM3500

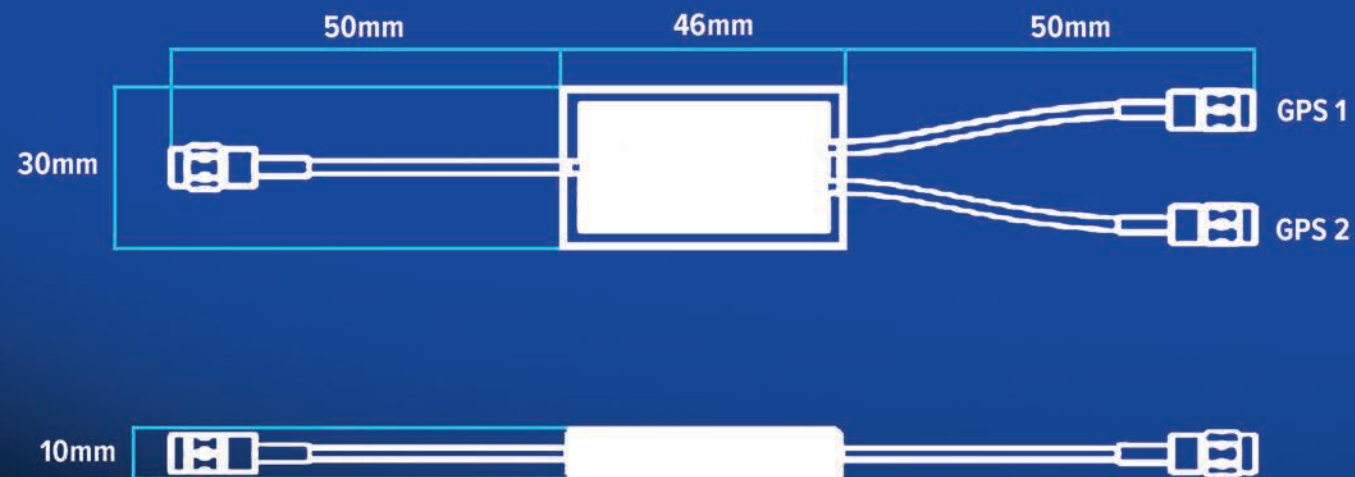
The **SM3500 Divider Unit** enables **two GPS devices** to share a **single antenna** without switching circuitry. It is compatible with both overt and covert antennas.



It supports frequencies of **1575MHz - 1620MHz**, with **DC-isolated GPS tails** and **custom terminations** available on request.

Ideal for combining a **factory-fitted satellite navigation system** with a **GPS-enabled mobile radio**, it retains **OEM functionality** and eliminates dashboard error messages when paired with our **covert antenna systems**.

This **passive unit** provides **seamless operation** and expanded **connection options**, ensuring **reliable performance** in diverse applications.





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TETRA Vehicle Accessories

Sure Antennas provide a wide variety of **TETRA vehicle accessories** for your vehicle fleet. We are proudly a **Platinum Partner of Motorola Solutions** and we are able to supply several of their **products**.



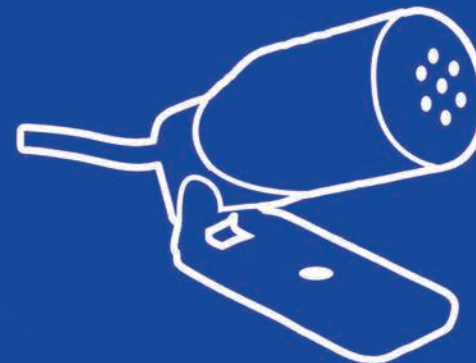
TETRA Vehicle Communication Solutions: Hard-wired car kits with hands-free functionality and external antenna support for seamless integration with mobile radios.

Enhanced Audio Accessories: High-output external speakers designed for clear communication in noisy environments, ensuring reliable performance.

Connectivity & Integration Kits: Accessory connector kits enabling expanded functionality and seamless integration of external devices with TETRA mobile radios.

TETRA Vehicle Accessories Range: Push-to-Talk Buttons, Speakers, Microphones, Mounting Brackets/Trunnions, Handset & Fist Mics, Power Cables, Accessory Junction Boxes & Connectors, Handportable Car Kits, Installation Cables.

GMMN4065:
Motorola Visor Mounted Microphone



GMSN4066:
Motorola External Speaker



GMLN5089A:
Motorola TETRA Data Junction Box



MDHLN7016A:
Motorola Telephone Style Handset Kit



Get a Quote




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.

Products should only be installed by a qualified installer, who is 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.



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