

CONNECTED TRANSPORT STARTS WITH A DEPENDABLE RF LINK.

RF CONNECTIVITY FOR INTELLIGENT TRANSPORTATION

RF Antennas.
Engineered Around Your
Application.



CONNECT THE VEHICLE, THE JOURNEY AND THE OPERATION.

From vehicle tracking and onboard Wi-Fi to fleet telematics and transport hubs, useful data depends on the installed RF link. Bloomice helps select and configure antennas, mounting, cable and connectors around the vehicle, the radio and the working environment.

RF ANTENNAS. ENGINEERED AROUND YOUR APPLICATION.

MOVEMENT CHANGES THE RF CHALLENGE

A good signal at the depot does not establish coverage across a route. Changing cell sites, vehicle bodywork, tunnels and urban obstructions affect the link. Dependable transport communications start with the radio, antenna position and real operating conditions.



01 ROUTES AND COVERAGE

Vehicles move between cell sites and through changing terrain. Assess the selected network, operating bands and coverage along representative routes.

02 BODYWORK AND MOUNTING

Metal roofs, glazing and onboard equipment affect antenna behaviour. Position, ground-plane requirements and clearance belong within the RF design.

03 EXPOSURE AND SERVICE

Rain, vibration, vehicle washing and cable movement demand practical sealing and strain relief. Check the installed assembly and access for servicing.

04 MULTIPLE RADIO PATHS

Cellular, Wi-Fi and GNSS perform different jobs. Match each element and lead to its radio port, and allow for separation, cable loss and a clear GNSS sky view.

TYPICAL INTELLIGENT TRANSPORT APPLICATIONS

FLEET TELEMATICS

Position / diagnostics / reporting

BUSES & COACHES

Onboard routers / passenger Wi-Fi

FREIGHT & LOGISTICS

Vans / lorries / asset visibility

SPECIALIST VEHICLES

Service fleets / multi-radio systems

OEM TRACKING

Embedded GNSS / tracker design

TRANSPORT HUBS

Depots / interchanges / monitoring

FROM ONBOARD ROUTER TO EMBEDDED TRACKER

THE RIGHT ANTENNA FOR THE VEHICLE

Six application-led options cover onboard gateways, fleet tracking and OEM integration. Match the radio bands, antenna ports and installed environment before deployment.



01 CASCO MIMO LTE

BEST FIT Buses, coaches & onboard gateways

FORMAT & CAPABILITY

2 x LTE / 2 x Wi-Fi / 1 x GNSS / five leads / M27 body mount

One housing for MIMO data, onboard Wi-Fi and vehicle positioning.



02 BODY ADYNA J-81

BEST FIT Compact vehicle & asset tracking

FORMAT & CAPABILITY

LTE / 5G NR + GNSS / ground-plane independent / IP67 / body mount

Compact cellular and positioning option for trackers and fleet equipment.



03 FIN J GPS / LTE / Wi-Fi

BEST FIT Service vehicles & connected fleets

FORMAT & CAPABILITY

Three radio elements / separate leads / M14 x 1 roof bolt / UV-stable ABS

Shark-fin format combines tracking, cellular data and Wi-Fi in one roof unit.



04 DISC LTE / GPS

BEST FIT Retrofit vehicle tracking

FORMAT & CAPABILITY

Self-adhesive combo / LTE, 2G, 3G / amplified GPS patch / sealed ABS

A no-drill option where the mounting surface and GNSS sky view suit the tracker.



05 LP/B MULTI-TECHNOLOGY

BEST FIT Specialist & multi-radio fleets

FORMAT & CAPABILITY

Rugged GRP housing / customer-configured GNSS, LTE, Wi-Fi and other radios

A configurable route for multiple technologies; agree and test the required build.



06 GNSSMOD-25-25-26

BEST FIT OEM trackers & embedded positioning

FORMAT & CAPABILITY

25 x 25 mm ceramic patch / active 26 dB amplifier / GPS, GLONASS, Galileo, QZSS

For integration inside equipment; match receiver power, enclosure and sky view.



FROM VEHICLE DATA TO OPERATIONAL DECISIONS

ENGINEER THE INSTALLED VEHICLE LINK

Position, cable loss and route testing determine whether vehicle data reaches the platform. Specify the antenna within the complete radio and network design.

FIVE QUESTIONS BEFORE AN ANTENNA IS SPECIFIED

- 01 NETWORK?**

LTE, 5G, Wi-Fi and GNSS; bands, operators and radio ports.
- 02 VEHICLE?**

Bus, coach, van, lorry, service vehicle or embedded tracker.
- 03 ENVIRONMENT?**

Bodywork, sky view, roof clearance, vibration and washing.
- 04 RF PATH?**

Position, orientation, cable loss, connector, routing and sealing.
- 05 ROLLOUT?**

Service access, fleet consistency and testing across routes.

APPLICATION-LED PRODUCT ROUTES

Choose by radio architecture and installation: MIMO gateways, compact trackers, multi-radio fleets or embedded positioning each need a different antenna format.

PRODUCT	PRIMARY TRANSPORT APPLICATION	CONNECTIVITY / FORMAT
CASCO MIMO LTE	Bus / coach / onboard gateway	LTE + Wi-Fi MIMO + GNSS
BODY ADYNA J-81	Compact vehicle / asset tracker	LTE / 5G + GNSS / body mount
FIN J	Service vehicle / fleet connectivity	GPS + LTE + Wi-Fi / roof fin
DISC LTE / GPS	Retrofit tracking installation	Cellular + GPS / self-adhesive
LP/B	Specialist multi-radio fleet	Customer-configured / GRP housing
GNSSMOD-25-25-26	OEM embedded positioning	Active GNSS / ceramic patch

VALIDATE THE INSTALLED SYSTEM

Rail and specialist installations require project-specific validation.

BRING BLOOMICE THE VEHICLE, THE RADIO AND THE ROUTE.

We will help define the antenna, mounting, cable, connector and validation route around the application.

