

# PRODUCT COMMUNICATION

**Subject:** Product Information Bulletin No.1367- LINX TPMS Bluetooth Module - important information.

## HOW THE MODULE WORKS.

When using the LINX TPMS Comms Box Bluetooth Module (part no. 7450116) it is essential to understand both how it operates and its most effective mounting locations within a vehicle to ensure its success for the customer.

This module uses two types of data transmission:

### Radio Frequency (RF)

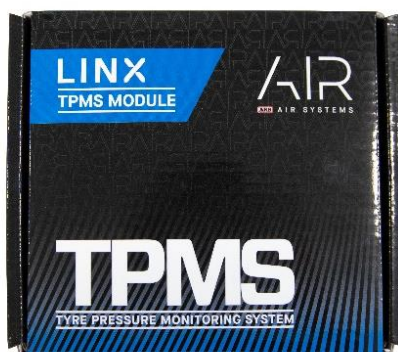
- The TPMS sensors fitted to the vehicle or trailer tyres sends its data via an RF signal which is received by the module through its RF receiver.

### Bluetooth

- Used to wirelessly connect and transmit data from the Bluetooth module back to LINX so the information it carries can be displayed in the TPMS Vehicle and TPMS Trailer modules within LINX.

To power the module, it should be cleanly wired to any ACC switched 12-volt DC power source from inside the vehicle.

The operating voltage range is between 9 and 16 volts, so you must ensure the power wire you have chosen operates between these voltages.



# MOUNTING THE MODULE.

The location of this Bluetooth module within the vehicle is critical to how it performs both stationary and at speeds. As it can hear up to twenty-four (six vehicle and three trailers with six sensors each) different tyre pressure sensors and their RF signals, it must have the clearest and most direct line of sight to every single sensor in use.

This will be impacted by physical components either in the line of sight or providing interference to the signals strength, all of which will impact the modules ability to hear the signals and likely result in a lack of communication and dropouts.

When mounting the module within the vehicle, the only material that should be between that module and the air is thin plastic trims such as those found inside the vehicle around boot liners, A/B/C pillar trims and the steering column. One material that safely allows the transmission of RF signals is roof linings which are made up of a combination of thin materials.

# WHAT INTERFERES WITH RF SIGNALS.

STEEL & METALS	CARGO BARRIERS	TIMBER	DRAWER SYSTEMS	CONTROL UNITS
VEHICLE SEATS	WHEEL RIMS	RF OR CB DEVICES	METALLIC TINT	ELECTRICAL DEVICES

# PROVIDING AN EXTRA BOOST.

The LINX TPMS Repeater System Trailer (part no. 819108) is an RF receiver and sender device developed for hearing tyre pressure sensors and passing the information onto the module. This device can be fitted to any vehicle which suffers from RF signal interruptions and may provide assistance in boosting the signals and improving dropouts.

# TOYOTA LANDCRUISER 200 SERIES.

Due to the strong build structure of this vehicle and its focus on sound deadening and heavy electronic technology, it's come to our attention that the mounting of the Bluetooth module is even more critical in its placement within this specific vehicle. When fitting the module, visualise the line of sight to each of the tyre pressure sensors and what it has to listen through. The lower it is placed, the more likely it has to go through steel, seats, plastic, electrical components and wiring.

The higher it is placed, the less likely it will have interruptions affecting the transmission of the RF signal from the tyre pressure sensor and the listening of the signal via the Bluetooth module. It has been proven on multiple vehicles that locating the module inside the plastic trim that surrounds the rear boot window glass has been successful in not only hearing all 4 vehicle sensors, but successfully hearing trailer sensors too.

