

RT-XLAN

High performance WLAN radio unit

Features

- 1 km range line-of-sight
- Highly reliable link with very few dropped packets
- Robust, weatherproof design
- Low latency
- Powerful suction cup for fast and secure mounting on a wide range of vehicles
- Wide temperature range

Applications

- For use with the OxTS RT-Range systems
- Suitable for ADAS testing on a test track where multiple vehicles have to communicate with each other

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RT-XLAN High performance WLAN radio unit



The RT-XLAN is a long range radio that extends and improves the data integrity and communication between vehicles in an RT-Range application. The RT-Range can measure the range from one vehicle to other vehicles in real-time and output its measurements on the CAN bus. It is used for the development and validation of advanced driver assistance systems (ADAS).

The standard RT-Range has a range specified to around 200 m in open environments where there is no interference. The RT-XLAN uses similar technology to the normal RT-Range, but the radios are specifically designed for outdoor use and have a robust, weatherproof design that can operate within a wide temperature range. They also feature a low-loss integrated N-type RF connector replacing the need for radio-to-antenna cable connections that can become a weak link. The RT-XLAN is capable of reliably improving the data communication throughout the range and also extending the distance between vehicles to up to 1 km.

The extended range is especially useful on larger test tracks and for ADAS tests where the vehicles need to communicate with each other reliably over a longer distance.

The RT-XLAN unit features a highly reliable link with very few dropped packets, even at the longer ranges. It also features superior latency so that it is very rare for packets to take longer than 10 ms between the vehicles.

The powerful suction cup (included) ensures that the RT-XLAN can be mounted quickly and securely onto almost all types of vehicles without the need for magnets. This means aluminium, fibre-glass and glass roofs are not a problem for the RT-XLAN. The radio only needs to be strapped down if working at very high speeds.

The radios are RoHS compliant, FCC approved and licence free for most countries.

For further information please contact OxTS or your local representative.



Parameter	RT-XLAN
Voltage	Up to 24 V dc
Power	~7 W
Power method	Passive PoE
Operating temperature	-40°C to +80°C
Wireless LAN radio range	Up to 1 km line-of-sight
Wireless LAN delay	<10 ms RMS
Operating humidity	5 to 95% condensing
Shock and vibration	ETSI300-019-1.4
Dimensions (including antenna)	37.2 cm x 3.7 cm Ø
Dimensions (incl. ant. & mount)	52.5 cm x 15 cm Ø
Weight (RT-XLAN and antenna)	~0.9 kg
Weight (total)	~1.4 kg