

Starling

StarCar™ Ku Band Antenna Systems for Land Vehicles



Starling's StarCar™ Ku Band antenna for land vehicles is based on our revolutionary, patented Coherent Multi-Panel Antenna (CoMPA™) technology. Our technology stands out among other approaches to mobile connectivity antennas by enabling a compact, lightweight antenna with the highest data rates for efficient and cost-effective broadband communications on any type of vehicle. The StarCar™ antenna system offers the most viable option for complete and global On-The-Move broadband services as it has the required capacity for consistent broadband applications such as: transmit and receive video, images and heavy data files, communicate via VoIP.

StarCar™ - High Speed Connectivity for Emergency Vehicles

The ability to communicate via a consistent fast connection is critical for emergency vehicles, such as police, fire and search & rescue platforms. With Starling's antennas, users benefit from high-speed, global data communications, assuring reliable true broadband connectivity while anywhere on the move:

- High speed internet
- Heavy files transfer
- Video and photo transmission
- VPN access
- VoIP communications
- Teleconferencing

Starling's Ku Band Antenna Advantages

- Highest performances - Transmit bit rates of 1-5 Mbps and receive bit rates of 10-25 Mbps
- Two-way connectivity meets global SATCOM frequency allocation requirements
- Ultra-small - easy to install. The miniaturized RF components inside the narrow-diameter, lightweight, low-profile antenna are easily installed on any type of vehicle
- Unique transmit and receive capabilities - efficient transponder use results in lower service costs
- Special wideband elements and diplexer for isolation are unique to Starling's antennas
- High quality - low maintenance. With all electronics contained inside the antenna, no space is required inside the vehicle. This allows considerably faster installation on in-service vehicles and quick, simple replacement of previously-installed old Ku band systems
- ITU/FCC compliance

Starling's StarCar™ Ku Band Antenna for Land Vehicles - Technical Description:

Flat Panel Technology

Low Loss Combiner Network
Wide-band Radiating Elements (Tx/Rx)

Multi Rx/Tx Front End
Active Electronic Polarization Tracking

Physical Specifications

Antenna Swept Volume	38" (96 cm) X 7.5" (19 cm)
Antenna Weight	60 lb (27.2 kg)

Main Performance Data

Tx Frequency	14.0 GHz to 14.5 GHz
Rx Frequency	10.70 GHz to 12.75 GHz
Gain	33.5 dBi at 14 GHz
EIRP	45-54 dBW option for external HPA
G/T	12 dB/°K at 12GHz
Azimuth	continuous coverage over full 360°
Elevation Coverage	0 to 90° antenna elevation
Modem Capability	compatible to all available modems

