



Smart Technology. Delivered.™

# Transportation Antenna Solutions

*Laird helps you meet and exceed the wireless connectivity challenges in the transportation environment.*





# Laird In Your Industry

Nowadays the transportation industry relies on the very latest communication technologies to keep everyone safe and seamlessly connected everywhere. Whether by air, ground or sea, access to real-time data and always-on communication while on the road is critical. At Laird we know that incorporating wireless connectivity to transportation services is key for the customer experience. That's why we offer antenna solutions that enable wireless connectivity in different transportation segments such as public transit, contracted transportation, passenger rail, courier service and private transportation among others.

# Transportation Antenna Solutions

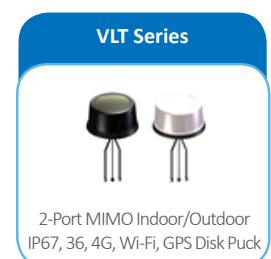
## Public Transit

In today's world busses, subway, rail and trams are becoming advance technology centers equipped with intelligent subsystems that enables not only passengers, but also dispatchers with high speed wireless connectivity to access the internet from their particular devices, get real time information about transportation schedule and destinations, navigation and location. Laird antenna solutions enable wireless connectivity that provides passengers and dispatchers with Wi-Fi, real-time advertising updates, updated transportation schedules and destinations, fare collection, navigation/location, safety and security.



## Contracted Transportation

Wireless connectivity is an integral part of contracted transportation services (school busses and motor coach services). Network connected school busses help increased safety and effectively extend the school day (for long commutes). Students can access the Internet on their own devices, communicate with family or friends, complete homework or access information on the way to a field trip. On the other hand, to stay competitive in the market, motor coach services must provide wireless connectivity to improve the passenger experience. At Laird we have the right antenna solutions that enable wireless connectivity that allow busses and motor coach services to extend Internet connectivity, offer real-time streaming video, and allow remote monitoring over operator networks.



# Passenger Rail

Passenger rail services are always looking for ways to increase the passenger experience. Offering wireless connectivity is key in this process. That's why Laird offers you antenna solutions that enable the required connectivity to provide services such as location, POS Mobile, voice, data and video over operator and Wi-Fi networks for metro and regional passenger services.

<b>HCR Series</b>  SISO External Antenna with Anti-Theft	<b>LPS Series</b>  SISO Indoor/Outdoor IP67 Disc Puck	<b>Discadoo</b>  Omnidirectional Antennas	<b>VLT Series</b>  3-Port MIMO Indoor/Outdoor IP67, 36, 4G, Wi-Fi, GPS Disk Puck	<b>VLQ Series</b>  4-Port MIMO Indoor/Outdoor IP67, 36, 4G, Wi-Fi, GPS Disk Puck
<b>Panel</b>  SISO/MIMO/Multiport Solutions	<b>Sticks</b>  Omnidirectional Antennas	<b>Yagis</b>  Directional Antennas	<b>Phantoms</b>  With/Without Ground Plane Requirements	

# Courier Services

In courier services every minute counts and wireless networks are a powerful tool for boosting productivity and encouraging information sharing. At Laird we understand the sensitive nature and importance of time-critical shipments and deliveries, that's why we provide antenna systems that enable wireless connectivity allowing you to increase mobility and collaboration, improve responsiveness, improve process and access of information in real time, providing a better customer service.

<b>VLT Series</b>  3-Port MIMO Indoor/Outdoor IP67, 36, 4G, Wi-Fi, GPS Disk Puck	<b>VLQ Series</b>  4-Port MIMO Indoor/Outdoor IP67, 36, 4G, Wi-Fi, GPS Disk Puck	<b>Yagis</b>  Directional Antennas	<b>Sticks</b>  Omnidirectional Antennas
<b>DTRA/AVL</b>  Indoor/Outdoor Dual Band & Triband GPS	<b>Phantoms</b>  With/Without Ground Plane Requirements	<b>GPS</b>  Active GPS Whip/Combination	



## Private Transportation

Connectivity on the Road is a huge differentiator in today's world. Constant connectivity is expected by passengers and drivers not only through their mobile phones, but also through other electronic communication devices. Laird is aware of that need and provide you with antenna solutions that enables constant connectivity on the road allowing passengers and drivers to have access to mobile voice, data and video over operator networks and Wi-Fi networks.

**VLT Series**



3-Port MIMO Indoor/Outdoor  
IP67, 3G, 4G, Wi-Fi, GPS Disk Puck

**VLQ Series**



4-Port MIMO Indoor/Outdoor  
IP67, 3G, 4G, Wi-Fi, GPS Disk Puck

**GPS**



Active GPS  
Whip/Combination

**Sticks**




Omnidirectional Antennas

**Phantoms**



With/Without Ground  
Plane Requirements

**Yagis**



Directional Antennas

# What Sets Us Apart



## MISSION

*A trusted partner delivering technology to the world through innovation, speed, & reliable fulfillment.*



## VISION

*A world where smart technology enables virtually everything to sense, think and communicate; transforming our way of life and empowering us to do more than we can imagine*



## CULTURE

*Working as a global team of talented individuals to make a difference for our employees, business partners and our world*

*We have an unwavering commitment to being honest and ethical in all situations and treating each other with dignity and respect.*

*We create an open and engaging environment that thrives on high energy, adaptability and delivering on our commitments.*

*Laird is a place with great opportunities for personal and professional growth for those who work hard, are willing to learn and deliver results.*

**29**

engineering and manufacturing sites globally

**18**

customer/market awards in 2013-14

**10Bn**

parts supplied to one client

**115+**

year heritage

**9,000** employees in **50** locations covering **5** continents and **19** countries across the globe



DESIGN



RAPID PROTOTYPING



PRODUCTION



SCALE



SOFTWARE



SYSTEM INTEGRATION



SERVICE

# Why Choose Laird?

Laird antenna solutions help you meet and exceed the wireless connectivity challenges in the transportation environment by increasing mobility and collaboration, improving responsiveness and improving process and access of information in real time enhancing the passenger and dispatcher experience.

Laird provides systems, components and solutions that protect electronics from electromagnetic interference and heat, and that enable connectivity in mission critical systems through wireless applications and antenna systems.

We are a leader in the design, development and delivery of innovative technologies that enable people, organizations and applications to connect efficiently and effectively. With a proud history stretching back to 1824, Laird has been at the forefront of technological innovation for almost two centuries. And we continue to deliver.

Our reputation has been built on three guiding principles:

- Innovation- putting our in-depth knowledge of the latest materials and processes to work in creating outstanding products for our customers.
- Reliable fulfillment – delivering what our customers need to their exact specifications, on time and on budget, and in the quantities required.
- Speed- rationalizing the design and delivery cycle to minimize the time from initial concept to final implementation.





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