

# Airspan Networks for the Transportation Industry



## ***High-Speed Broadband for high-speed travel and beyond***

*Airspan makes high-speed data and quality voice available through reliable, robust and field-proven 4G technology. Increased connectivity allows for bandwidth-intensive applications such as video streaming, surveillance, telemetry and passenger broadband access on secure and reliable links.*



# Airspan for Transportation Operators

## ***Passenger Communications***

Airspan 4G technology harnesses the fastest, most reliable and resilient functionality to deliver dependable mobile connectivity to passengers on trains, busses or taxis anywhere in the coverage area. Individuals can connect to broadband demanding, triple-play applications with 4G-enabled laptops, smart phones and other communication devices. With 4G technology, passengers can transform their travel experience while extending their access to entertainment, office connectivity or VoIP applications.

## ***Transportation Security***

Passenger safety and convenience are of utmost importance to transportation operators. Airspan's 4G technology enables railroad and bus companies to increase their surveillance capabilities, thereby increasing security at stations, yards, depots and railroad crossings, as well as on the trains, locomotives and busses themselves. In addition, the technology allows for continuous updates of passenger information, schedule changes and important announcements. Further, railroad companies can easily incorporate location-centric advertising to help increase revenues and better the overall customer experience.

## ***Traffic Management and Signage Communications***

Cities and municipalities must cope with the challenges of road safety, increased traffic and emergency traffic diversion. Airspan 4G infrastructure is easy to deploy and can be easily integrated into a traffic management network to set up a network of traffic cameras that can be accessed by operators, news reporters and residents for live traffic reports. In addition, the network can remotely update digital traffic signs to notify drivers of accidents, detours and amber alerts. And while out on the road, traffic operators can access the main network from remote locations through vehicle mounted or portable devices.



**Airspan 4G solutions enable communication across the transportation industry, ensuring security & high-speed communications and more.**

4G technology has a wide variety of applications and benefits for the transportation vertical market. LTE and WiMAX are helping direct this market into the next generation of connectivity, whether by enabling passengers on trains and busses to access high-speed Internet, helping Transit Authorities and transportation departments to quickly download travel, schedule or passenger information, allowing for traffic management with intersection-placed units, or by increasing security and surveillance on board or at crossings, stations and depots.

## ***Ideal For***

- Security/Surveillance
- Passenger Internet Access
- On-board entertainment
- High-speed race car telemetry & communication
- Download Passenger & schedule info
- Traffic management and signage updates
- Location-centric advertising



# for Security, Speed, and Reliability



## The Airspan 4G Solution:

Airspan's advanced technology brings the transportation industry into the next generation with a cost-effectively, 4G wireless, mobile network.

Airspan makes high-speed data, quality voice and high-resolution video available through reliable, robust and field-proven technology. Increased connectivity allows for bandwidth-intensive applications such as video streaming, surveillance, telemetry and passenger broadband access on secure and reliable links.

With a quick-to-deploy and affordable business model, Airspan's 4G solutions allow transportation organizations and municipalities to easily integrate a wireless network which means no digging or laying of cables, saving an enormous amount of money and time.

With a variety of equipment, including macro, micro and pico base stations and end points like the MRT - a unique, rugged, vehicle mounted 4G subscriber terminal, Airspan has a winning portfolio that can provide operators with flexibility in building the right type of network. Airspan equipment can provide mobile connectivity as well as address fixed applications. Airspan also offers 4G end points that integrate Wi-Fi support, to create a Wi-Fi hotspot for additional device connectivity.

## Airspan Benefits

- MIMO and smart antenna functionality
- Advanced technology seamless handover
- Wide variety of subscriber devices
- Cost-effective and scalable network
- Voice, video and data
- Full Quality of Service (QoS) support
- Network security, reliability and resilience
- High throughput at speeds up to 200 mph
- Rugged, weather-resistant hardware
- Non-Line-of-Sight (NLOS) functionality

In addition, Airspan offers the ViaNET solution, a network built with mobile terminals (MT), access points (AP) and a CrossNET server. Mobile terminals are installed in vehicles as on-board units (OBU). Access Points are deployed along the trackside or road. ViaNET radio equipment is built with ruggedized chassis and heavy duty connectors for power supply and external antennas.

With a low operational cost and advanced spectrum re-use technology, Airspan offers a robust and efficient solution that enables performance optimization across the transportation industry.

## Airspan 4G Equipment



ProST  
Outdoor CPE (16d)  
(Wi-Fi option)



MRT  
Trunk-loaded  
Wi-Fi Integrated  
CPE (16e)



Mini PCIe  
Module  
(16e, LTE)



ViaNET  
(Wi-Fi)



MiMAX Pro  
Outdoor  
CPE (16e)



MicroMAX  
Micro Base  
Station  
(16d)



Air4G  
All Outdoor Macro  
Base Station  
(LTE, 16e)



AirSynergy  
Pico eNode  
(LTE, 16e, 16d,  
backhaul)

# Security, Speed, and Reliability in Transportation

