



Teletics Airborne™

Wireless Ethernet Mesh Solution

PURPOSE BUILT, RUGGED & DEPENDABLE TECHNOLOGY

CASE STUDY

WHEN WIRES WON'T WORK

Traffic signal control is going wireless in major metropolitan cities with thanks to Teletics Airborne Wireless Mesh products as part of the solution.

Recently a large city in Canada and one of the largest metropolitan areas in North America has started the process of updating and improving their traffic signal control systems. Teletics Airborne product proved itself, demonstrating high performance and extended coverage. Wireless mesh technology is quickly becoming the new communications standard as businesses and organizations look to expand the reach and functionality of their network. Teletics Wireless Mesh Solutions help network administrators deploy high-performance technology that is scalable, resilient, mobile, secure, and easy to integrate.

When wires won't work, count on Teletics.

Airborne



“Teletics Wireless Mesh Solutions help network administrators deploy high-performance technology that is scalable, resilient, mobile, secure, and easy to integrate.”

Summary

Recently a large city in Canada and one of the largest metropolitan areas in North America has started the process of updating and improving their traffic signal control systems.

This city, like many metropolitan cities traffic management departments, have taken the first steps in a big leap into the future that will see a conversion of most traffic signals to a wireless control system that improves signal phasing versatility. Wireless links provide traffic signals, networked through wireless links, and deployed in large numbers, unprecedented opportunities for monitoring and controlling signal phasing with that control the traffic flow, particularly important with multiphase intersections.

Intelligent Traffic Systems that include Teletics Airborne wireless mesh network solutions gives operators hands-on control over traffic dynamics and dramatically lowers the city's installation and operating costs. Installing Teletics Airborne Mesh products are easy and simple, no trenching and digging for copper or fibre, simple set up in seconds, real plug & play, and the industrial urban ruggedness of Teletics products mean less repair and replacement.

Teletics Wireless Mesh Solutions are a substitute for wired systems but can also complement wired systems by providing the optimal wireless solution for augmenting and expanding to signal locations that are not well suited for wired systems.

The Challenge

As the City's population increases, greater travel demand is creating more traffic congestion which poses a challenge to share road space among all road users – pedestrians, cyclists, transit, and vehicles. To mitigate traffic congestion on the transportation network, it is pertinent to have efficient traffic signal operations.

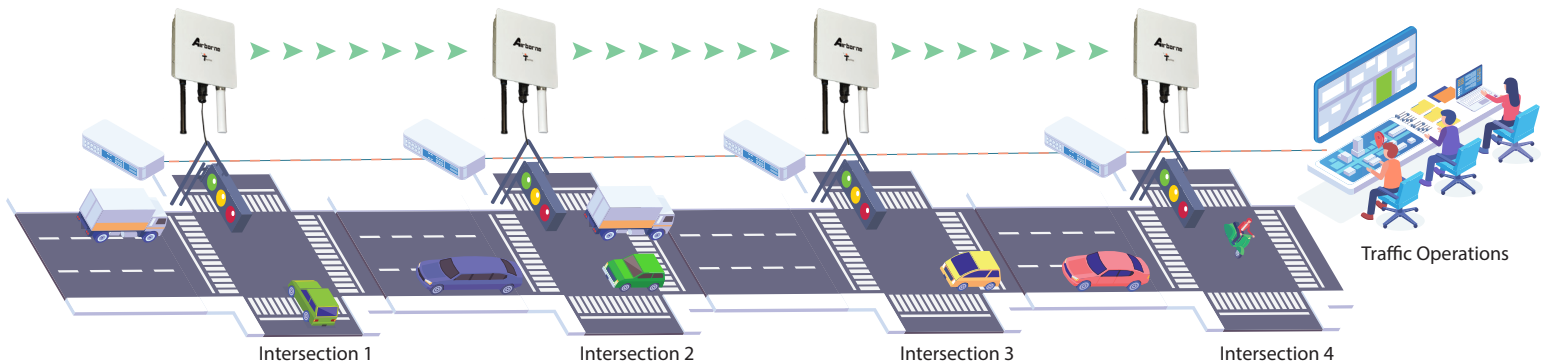
The City's communications platform connects to video cameras, traffic signal controllers and dynamic message signs on arterials throughout the city, so traffic can be monitored from a central command centre. Currently, the majority of traffic lights are controlled via direct copper-wire or fibre links to their operations centre or by stand-alone traffic cabinets on the street with an internal clock.

The City was looking to reduce the costs of setting up this communications infrastructure and required a wireless mesh solution as part of it, eliminating the massive process of trenching and cabling between the signals. Other considerations included - rugged equipment to reduce maintenance operations, easy setup and operation and a solid customer service solution.



Airborne

Easy Networking for Traffic Applications



The Solution

Teletics wireless mesh solutions were selected as the best solution to meet the stringent outdoor requirements that also meets and exceed the challenges stated above. Leveraging the advantages of Teletics technology, Teletics Airborne Mesh products were able to solve the problem for the City:

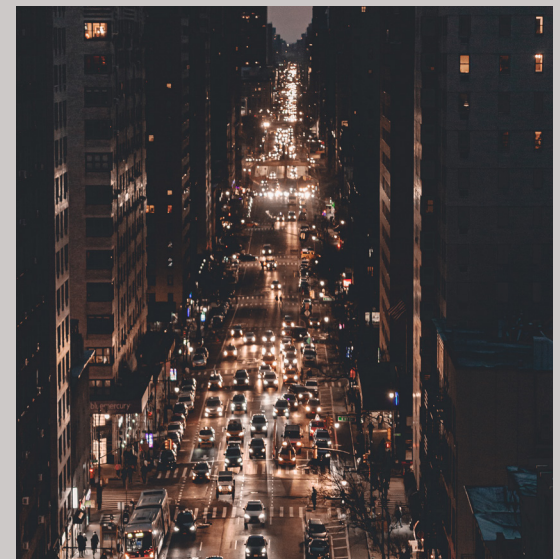
- Advanced Meshing Technology. Self-adapting network where each radio is a repeater.
- No cables and trenching of roads.
- Urban tough – exceptional rugged products.
- True Meshing 80 Mbps throughput.
- Latency advantage over cellular service.
- No programming experience needed! Radios simply get numbers 11 thru 30.
- Simple visual signal strength diagnostics runs on any windows laptop.
- No networking experience needed! System operates like a network switch.
- Works with VoIP, Security Cameras, IoT systems, and any kind of internet access.
- Fully secure – out of the box. All components needed for installation are in the box!
- Installation time reduced by almost 90% when compared to wire implementations.

The Results

Teletics Airborne product proved itself, demonstrating high performance and extended coverage. Wireless mesh technology is quickly becoming the new communications standard as businesses and organizations look to expand the reach and functionality of their network. Teletics Wireless Mesh Solutions help network administrators deploy high-performance technology that is scalable, resilient, mobile, secure, and easy to integrate.

Teletics products are engineered from the ground up to work reliably and last – especially in the roughest weather, toughest applications, and most extreme environments. Because our products are built to last, require less repairs and will keep working in the most difficult conditions, you save money in the long term.

They also want a technology partner, like Teletics, with deep expertise in supporting wireless mesh solutions and who can assist them to navigate the complexities of the ever-changing regulatory, safety and economic trends that impact the planning, delivery, and implementation of their wireless mesh networks. When wires won't work, count on Teletics.



Contact Us

Want to learn more?

We understand that our clients are purchasing more than just a piece of wireless mesh equipment. They also want to be confident that they have made informed decisions that meet their needs.

Throughout the process they require knowledge, information, service, flexibility, and attention. Successful delivery and satisfaction require open, honest, and timely communication with project partners and with our end clients.

Teletics is here to work with you, contact us anytime.

TELETICS

DEALER / DISTRIBUTOR / SALES

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About Teletics

Teletics is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

Teletics was founded in 2003 in Calgary, Alberta, Canada. but we have sales representation around the world. We are a division of Guardian Telecom Ltd.

Teletics' products are used in some of the most environmentally demanding situations on earth. W*intercom™, Zipline™, and Airborne™ are used throughout the world in harsh environments including oil and gas drilling operations, fuel sites, electrical and gas utilities, mines and chemical plants.

Teletics products are designed to operate efficiently in complex communications environments involving integration with satellite communications, traditional land line telephone, public safety systems, and cellular. Our designs provide simple, elegant programming and setup, which provides lowest effective cost of fleet operation.

Our reputation is based on designing robust communications equipment that provides extremely reliable operation in some of the harshest environments anywhere. Hot. Cold. Corrosive. Explosive.



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