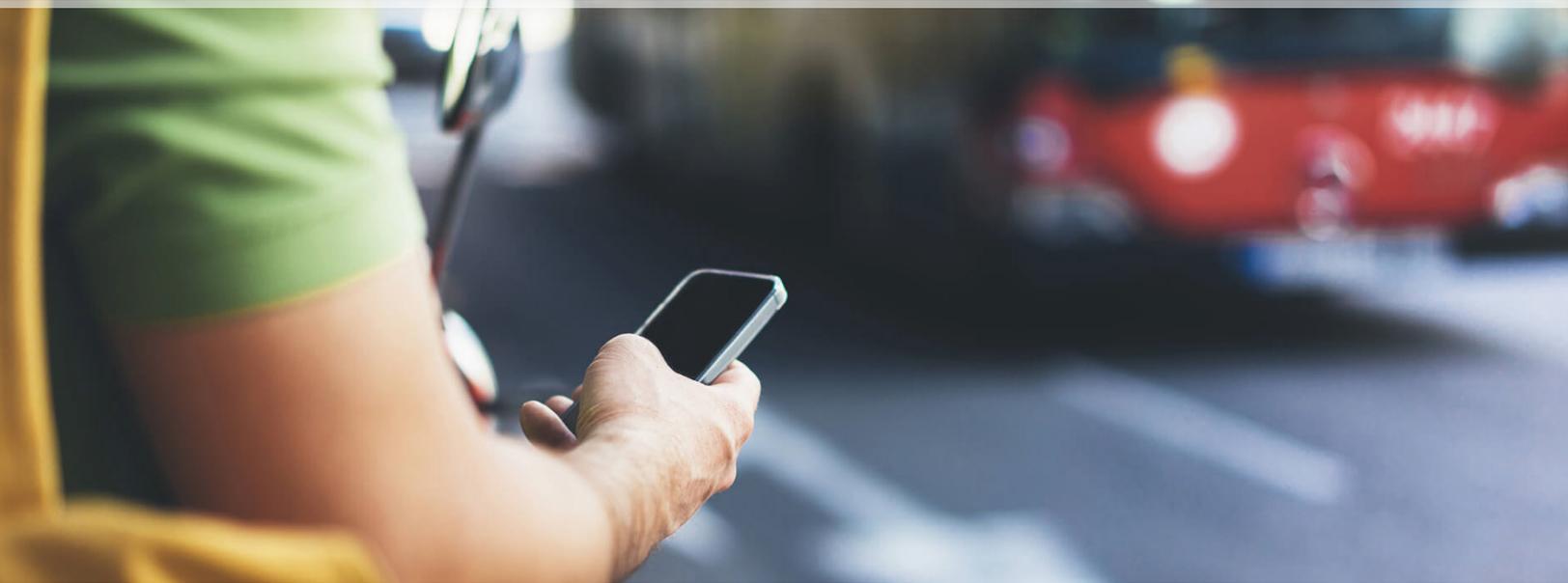




**FIBER CONNECTIONS INC.** develops a connectivity solution  
with **COMMUNICATIONS & CABLING CONTRACTORS INC.**



## **Communications & Cabling Contractors Inc. Background**

Communications & Cabling Contractors Inc. is a contractor who provides turn key solutions for many municipalities tasked with providing reliable communications for their ever-demanding intelligent transportation network.

## **The Challenge**

A large municipality's need for long-term transit planning led them to introduce a bus service with limited stops, public WIFI, Personal Duress buttons (VOIP), live security video, and real time, next-bus information. The buses have the technology to influence traffic signals to maintain a schedule. Consumers can access this information at all shelters, on the website, or by mobile device. In order to implement these technologies, Communications & Cabling Contractors Inc. faced the following issues:

- Needed additional options to connect remote devices to power sources if necessary
- The contractor needed a simple device that would fit their connectivity needs, that would withstand harsh environments, and that would have an extensive lifecycle
- Distance requirements beyond typical "off the shelf" limitations
- Electronic screens, security cameras, and emergency call buttons at bus stops needed connectivity

- The site had limited space for any connectivity solution, so devices had to be compact, easy to install, and flexible
- Need for one device that would allow complete network isolation from multiple departments (Security, Transit department, IT department)

## The Solution

Fiber Connections worked with Communications & Cabling Contractors Inc. to design a solution using both the Gator Patch (which provided a pre-terminated patch panel in the shelter) and the GatorLink (which provided the media conversion and data distribution to the active components in the shelter). The additional feature to provide a dedicated path from the source to the GatorLink allowed for full bandwidth and network isolation giving the City's departments their own communication pathway on the same GatorLink. On existing sites where the Gator Patch was already installed, a custom MTP fan-out was designed to join the Gator Patch to the newly installed GatorLink. On new sites Fiber Connections was able to minimize connections and reduce costs by supplying a ruggedized MTP cable assembly that would splice into fiber infrastructure and connect directly into the GatorLink.

## The Results

With the help of Fiber Connection's products and design, Communications & Cabling Contractors Inc. successfully installed a system that allowed for data distribution from the source to every remote location. Thanks to the collaboration of both companies, every bus stop in the area has an alarm button that alerts authorities to respond to any emergency. Bus stops also have security cameras for passenger and pedestrian security, and they have electronic screens that give passengers accurate information on arrival times of every bus.

FCI's products have helped to create an effective Intelligent Transportation System that has improved efficiency, as well as the security and the comfort of the passengers.



## Communications & Cabling Contractors Inc. Testimony

“ Without the FCI product line available to us, we could not have deployed so many reliable projects to date. Now with their Active Components like the GatorLink (media converter) they are removing the maintenance and headaches of having managed switches in the field, which the customers are enjoying. ”

## Why Fiber Connections?

The Gator Patch has a proven track record in the ITS market. The durable construction along with versatile mounting options makes the Gator Patch a perfect fit for traffic control cabinets and transit shelters. The GatorLink, along with the passive optical cabling system provided, gave the customer the perfect solution to provide connectivity, media conversion, and PoE injection (if needed) to the bus shelters in a compact and modular package.

## About Us

Fiber Connections, founded in 1994, is an innovative manufacturer of custom active and passive optical connectivity and media conversion solutions. We offer a complete line of fiber optic cable assemblies, fiber management solutions, media conversion and Power over Ethernet network hardware.

Our vision has always focused on innovation and quality and we pride ourselves in taking on challenges that our customers present to us. We have a reputation for being able to deliver customized fiber optic products that meet specific customer requirements. Fiber connections can take on any unique project.

## To learn more about FCI's application within Intelligent Transportation Systems, visit:

<http://fiberc.com/applications/fiber-optics-intelligent-transportation/>

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