



Fixed Wireless Access Solutions

TVC

A Division of Wesco International



Network operators, as well as enterprise, industrial and government organizations, need to provide reliable connectivity and greater bandwidth to serve more subscribers and provide higher service levels in potentially challenging environments.

With broadband increasingly becoming a necessity of life, there are still areas where connectivity is challenging.

Fixed Wireless Access (FWA) is a scalable alternative to provide high-speed broadband to urban, rural and industrial environments where laying or maintaining fiber lines can be hindered by multiple factors.



Rural Areas



FWA can be deployed in rural areas as an alternative solution to fiber to overcome the deployment challenges associated with terrain, rivers and railroad tracks. It delivers an effective way to provide last-mile connectivity in remote areas where buried cable or above ground wire or fiber is cost-prohibitive. Utilizing FWA in remote areas or rugged conditions offers:

- Rapid deployment without the time of trenching fiber or the need for cable equipment
- Cost savings over traditional wired deployment methods
- Reliable and secure connectivity
- Ease of installation and maintenance
- Performs well in disaster situations and is easily restored after such events

Urban Areas



Fixed wireless is also a proven and reliable solution for urban areas – delivering significant bandwidth and speed-to-market as well as reliability and flexibility. FWA can help service providers expand and optimize their networks in urban and densely populated areas such as malls, business districts and entertainment districts where high-deployment costs and logistical difficulties can bring their own unique challenges. Using FWA can:

- Bridge connectivity gaps
- Increase network capacity
- Reduce installation complexities

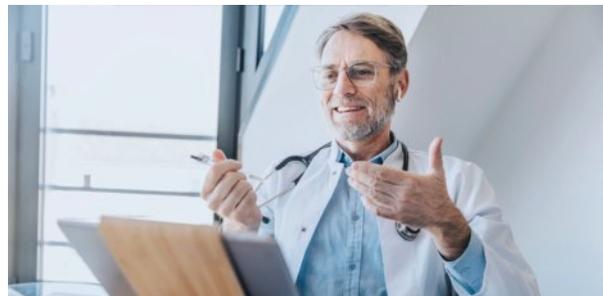
Educational Settings



FWA is the perfect solution for educational settings and can help bridge some of the disparities in educational opportunities in rural or Native American communities. Wired or fiber connections are not feasible to reach some of these rural locations, but fixed wireless can bring fast speeds quickly and securely to schools and classrooms. FWA means:

- Schools can quickly communicate with satellite campuses in various locations
- Facilitate eLearning opportunities and flexibility
- Schools and universities can stream learning videos, hold web conferences and have interactive online discussions

Healthcare



Fixed wireless internet is helping to close the gap for telehealth in rural areas. Reliable broadband internet with enough capacity for both the healthcare facilities and the patients is critical in rural areas. It can provide:

- Increased access to the internet for healthcare and services
- Allows medical personnel to contact patients for video consultations, checkups, remote monitoring and even review lab work
- Patient does not have to seek care in person, lessening the chance of exposure to public health risks and reduces the obstacles and cost of travel to seek medical care

Industrial



FWA has been used in challenging industrial applications such as mining, agriculture and energy production where cabling is not practical or possible.

Critical Infrastructure



FWA can link public safety networks, provide redundancy to existing networks that can't afford downtime, and enable emergency response communications.

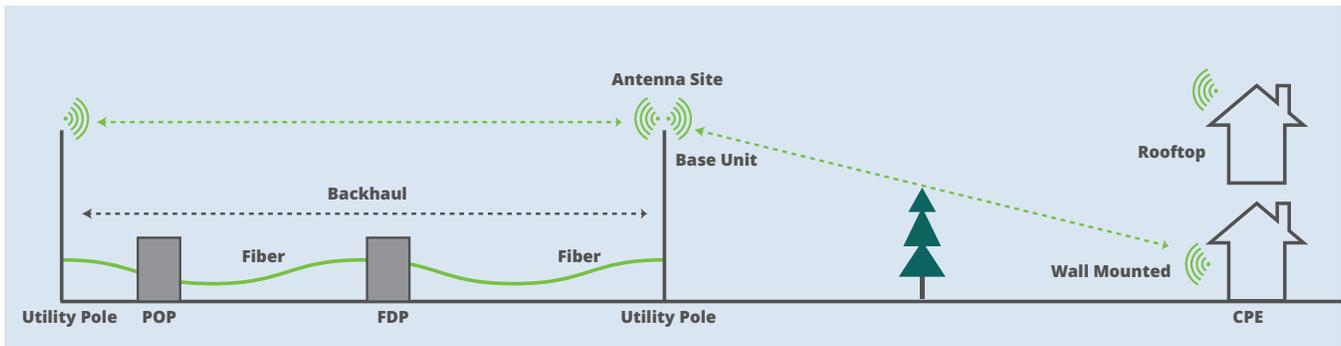


TVC's portfolio of fixed wireless solutions enables network operators to optimize network performance and deliver reliable service in diverse environments and varied conditions. Our team of experts can evaluate the needs of your project and find the best technological solution or combination of solutions to fit the needs of almost any community, organization or institution.

Typical Applications

- Bringing broadband connectivity to underserved or rural communities
- Commercial and residential connectivity
- Campus area networks
- Infrastructure for Wi-Fi or small cell access
- Deliver signal and networking capabilities to provide robust IoT sensor-based systems for businesses, farming, manufacturing, security and more
- MDUs/MTEs provide broadband and other services to high-density residential and office buildings
- Establish connectivity in and around retail applications such as strip malls, shopping centers and retail facilities
- Deploy services around indoor and outdoor venues, hotels, hospitality and events
- Critical infrastructure connectivity for oil and gas field locations, railroad track coverage, shipping port communications and other transportation providers
- Smart city applications
- National defense and border security
- Work from home connectivity

TVC wants to help you get your connectivity right. Our solutions are designed to simplify network connectivity and speed deployment times.



Why TVC?

TVC partners with industry-leading suppliers and, coupled with our own creative and robust design, engineering, project management and supply chain services, we deliver the right solution for your project.

We have launched numerous, innovative point-to-point and point-to-multipoint wireless networks for business and residential applications, creating the last connection in fiber-based networks for fiber deep, backhaul and rural broadband builds.

Our comprehensive suite of end-to-end solutions, coupled with our fixed wireless access (FWA) experience and expertise, means you have a single partner to help you solve your complex connectivity challenges.

- Point-to-Point wireless
- Point-to-Multipoint wireless
- Wireless backhaul (microwave)
- Edge point of presence
- Distributed antenna systems (DAS)
- Public safety
- Small cells
- Citizens broadband radio service (CBRS)

What We Sell

- Antennas
- Access points
- Assemblies
- Broadband radios
- Cabling and connectivity
- Enclosures
- Fixed wireless
- Grounding
- Jumpers (coax and fiber)
- Lightning protection
- Microwave radios
- Mounting and hardware
- Power
- Smart poles
- Tower mounted amplifiers

Learn more about Fixed Wireless solutions:
www.tvcinc.com/c/fixed-wireless-access/

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www.tvcinc.com

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