

**Product Name:**

Fixed Wireless

**Product Availability:**

Fixed Wireless solutions are available to customers in all PAETEC markets.

**Ideal Customer Profile:**

This solution is a perfect fit for customers requiring multi-megabit to Gigabit access speeds. In particular, customers who have the need for physical layer diversity in their organization's network infrastructure.

**CPE Requirements:**

- Radio, antenna, and mounting hardware located on rooftop of building
- Network interface unit located in network room
- Cabling (fiber or coax) between rooftop and network room

## FIXED WIRELESS | In Brief

**Solution Description:**

PAETEC's Fixed Wireless offers you an alternative last-mile and metro-area solution to complement or replace your existing physical infrastructure. Fixed wireless access can be either a standalone point-to-point solution, or bundled with other PAETEC services as part of a business continuity solution. In the latter case, PAETEC will provision secure, reliable transport links that can provide your network with the following types of physical layer diversity:

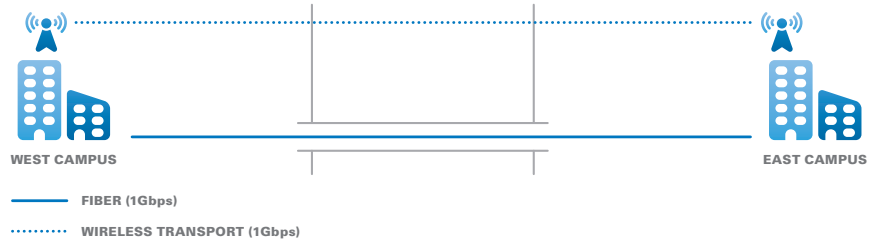
- Circuit / "last-mile" diversity
- Building point-of-entry diversity
- Switch / ILEC wire serving center diversity

**Product Capabilities:**

- Transport bandwidths of 20Mbps to 1Gbps
- Support of voice, data, or combined voice / data traffic
- Circuit availability of 99.999% (or better) in all weather conditions
- Secure, interference-free operation over FCC-licensed frequency bands

### Application One – Private Line Diversity

In their main NJ location, a small college operates a campus on each side of the Jersey River – these campuses are 1.5 miles apart. Each campus contains classrooms, administrative buildings, and residence halls. All of the college’s Internet services are delivered to the Tech Center on the East Campus, so the college provisions a point-to-point fiber circuit to provide the West Campus with data service. The fiber runs across the river via the local bridge. When there is construction on the bridge, the college experiences frequent outages on the point-to-point circuit. The college asked PAETEC to engineer and install a wireless transport circuit that directly links the East and West Campuses. After using PAETEC’s Equipment for Services (EFS) program to finance the equipment purchase, the college now owns an additional 1Gbps of bandwidth between campuses that will not be affected by any local construction projects.



### Application Two – Access Line Diversity

A healthcare management organization offering comprehensive hospital services within a major metropolitan area in Florida recently received voice services from the ILEC over sixteen DS-1 access lines, along with data services delivered over two 100MB Ethernet connections. All of the services were provisioned through the nearby ILEC central office (CO). The organization’s CIO recognized that if the CO were ever damaged in a hurricane, all of their communications services could be at risk. After a field survey confirmed line-of-sight, PAETEC recommended that they reallocate eight DS-1 voice circuits and 100MB of Ethernet service over a wireless transport circuit provisioned between the organization’s headquarters and the PAETEC switch. With the activation of the wireless circuit, the healthcare organization was able to balance their voice and data network traffic between the ILEC and PAETEC circuits, and has yet to experience a simultaneous outage.

