

The Siklu logo is located in the top left corner, featuring the word "Siklu" in white on a dark purple rectangular background. The letter "i" is stylized with a green dot and a white circular element.A solid green vertical bar is positioned on the left side of the page, extending from the bottom of the main text area to the bottom of the page.

GIGABITS GO PUBLIC

mmWave Wireless Fiber Delivers



Public Gigabit Wireless

Smart Cities is a topic that has been in the mainstream telecom lexicon for several years now with the advent of the Internet of Things and new potential applications arising constantly. While cities grapple with an overarching strategy and approach to connecting all the “things” that are out there, in many cases there are immediate and specific needs that need addressing.

Municipalities are deploying wireless networks today supporting Public Wi-Fi, Public Safety (in addition to video security) and in support of temporary events such as fairs, concerts, sporting events and emergency response. The common need in all three of these applications is high speed on the order of gigabits/second, reliability, and rapid deployment. Siklu Fixed 5G solutions are a perfect fit for these use cases offering multi gigabit speeds, virtually zero interference now and in the future, and rugged mission critical design and construction of the radios.

Public Wi-Fi

Public Wi-Fi burst on the scene over a decade ago as “muni Wi-Fi.” That movement failed, not because people did not want or need Wi-Fi in public areas such as train stations, parks and more. Rather the experiment failed because the business model for sustaining and operating these networks was not considered, and hence funded.

Today the demand for high speed connections wherever one may be is constant and public Wi-Fi can go a long way to addressing those demands. Often times where an Access Point needs to be, in a park, a metro station there is no cable to connect them. Also given that current WiFi Access Points are pushing well over a gigabit in connection speeds operating in the 5GHz band – legacy wireless has neither the bandwidth nor the spectrum to co-exist with the WiFi Access Points that need connecting.

Siklu gigabit wireless solutions, point to point or in point to multipoint configurations operate in the 60, 70/80GHz bands avoiding the WiFi frequencies and delivering anywhere from 1 to 10Gbps speeds. Ideal for this application.



Public Safety

Much has been made of the matchup between mmWave and video security backhaul as gigabit speeds, reliability and interference free operation are a natural fit. Beyond this use case however is another that is gaining traction in cities around the world. Specifically linking up Emergency Call Stations back to the police or security office. These Emergency Call Stations are placed strategically around cities and or campuses in outdoor locations such as parks and offer easy and immediate emergency services connections to the dispatcher. Supporting emergency calls in this manner means the solution has to be rock solid. And being stationed around outdoor spaces means wireline connectivity is often not available. With even more emphasis on the mission critical application of emergency services, Siklu solutions must perform – and perform as close to 100% up time as is possible.

Temporary Events

Cities are dynamic environments with gatherings of large crowds for various events a common occurrence. Whether it's the Golden Globes, a Super Bowl, a concert or just a farmer's market they still need connectivity. Given the ad hoc nature of when and where, it is most times not possible to plug into an Ethernet cable to provide this connection to the cloud. Vendors, performers, concessions all need access to the Internet.

When a crisis or emergency hits and temporary shelter or medical facilities need to be deployed, they also rely on high speed connectivity. While the use case and requirements are similar to other more normal events such as concerts, supporting emergency deployments demands the highest quality and reliability for what is truly a mission critical application.

With Siklu Fixed 5G these networks can be set up in hours. Given the temporary nature of these "happenings" there's no need to dedicate equipment to the site. The network can be installed, the event transpires, and then the wireless network can just as quickly and easily be removed and used for the next special occasion. When it absolutely has to be work – Siklu Solutions deliver.



Siklu's radios are the most deployed millimeter wave systems in the world



EtherHaul™

Street Level

Up to 1Gb
Aggregated



EtherHaul™

Rooftop

Up to 10Gb
Full Duplex



MultiHaul™

Point-to-Multipoint

Plug-and-Play
Street level up to 1.8Gb
Aggregated



MultiHaul™ 366

Mesh

60GHz Gigabit



Siklu SmartHaul™ Network Software Tools



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