Jim & Stan watch more and more HD video.
Is your wireless network up for it?

Next Generation Wireless Security Networks

Siklu's EtherHaul™ Gigabit Wireless Radios Use Uncongested, 60/70/80 GHz Spectrum to Deliver, Future-Proof Gigabit Capacity

Public safety and surveillance networks around the world are expanding rapidly. They are delivering more applications, demanding greater bandwidths and used by more first responders and law-enforcement authorities. Solutions architects are opting for wireless technologies to transport the security traffic. However the widely used sub-6GHz band is limited in spectrum, and increasingly used by Wi-Fi and consumer devices. Expansion into the 60/70/80 GHz millimeter wave spectrum will provide a high-capacity cost-effective alternative.

How do you future-proof your security network?

Tens of thousands of CCTV cameras now cover every major city. From poles, building sides and rooftops they capture Gigabytes of HD video. To transfer all this footage to control rooms you need increasingly high capacity wireless links that can be easily and discreetly installed on the very same street fixtures as the cameras.
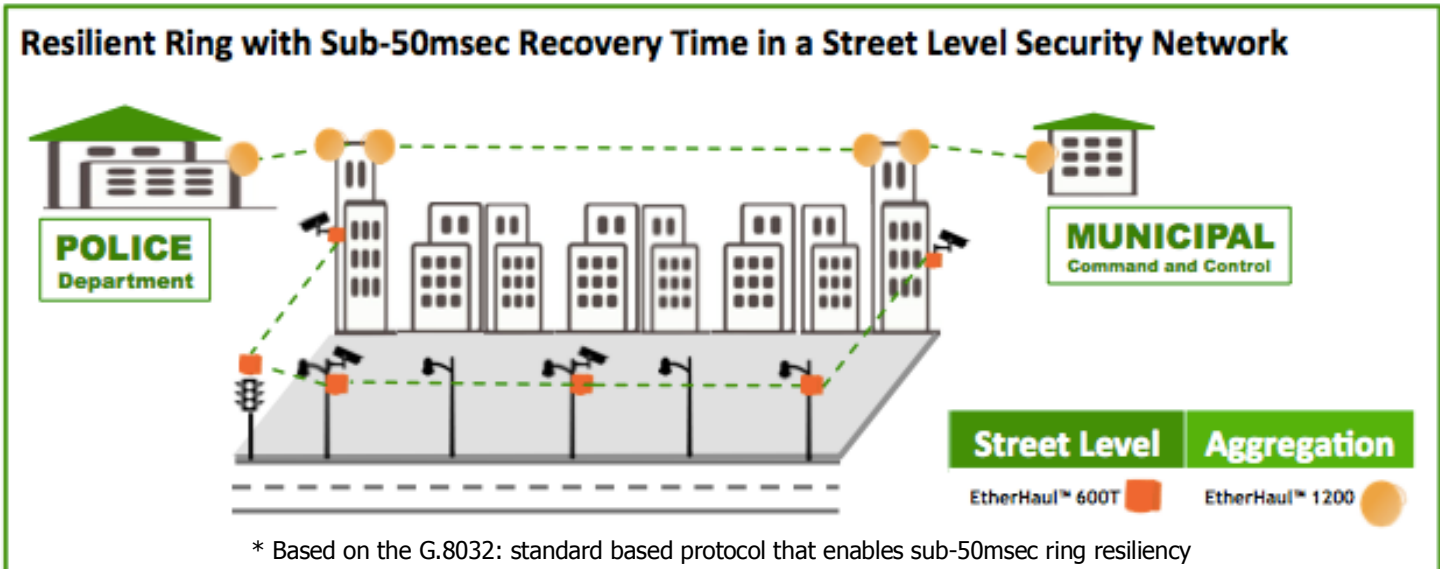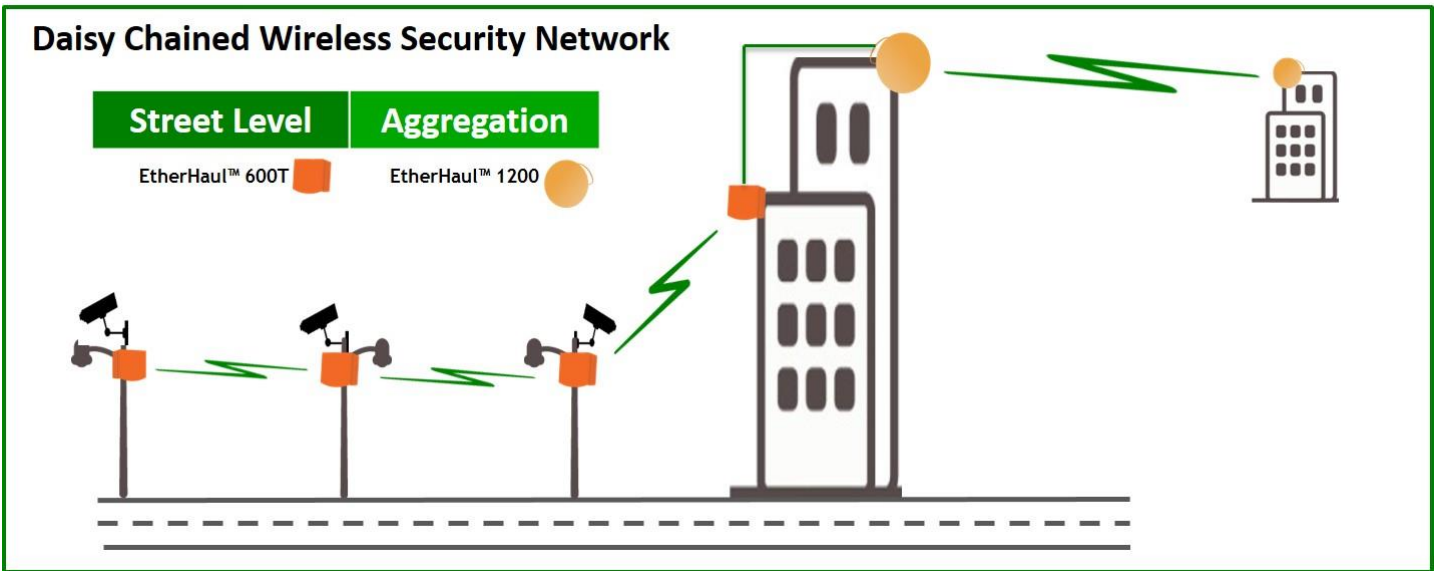
CCTV operators are looking for reliable and cost effective solutions to expand the footprint of their networks. Due to the heavy investment associated with fiber trenching or leasing, in most cases wireless is a more cost effective solution. Solutions suitable for security networks are available in the sub-6 GHz band or millimeter waves, while traditional microwave solutions are typically too expensive due to licensing, and also too large. However as video capacity increases and multiple cameras daisy chained onto a single link, the millimeter wave spectrum, with its Gigabit throughput offers a distinct advantage over sub-6 GHz. In dense urban areas in particular, it is easier to deploy radios using the low interference, uncongested 60/70/80 GHz bands. In addition, in the 60 GHz unlicensed band, radios can be optimized for street level deployment.

Additional networking capabilities will be required by the emerging LTE technology for security networks. LTE will bring a huge capacity boost to first response forces on the move. This new capacity will rely heavily on a Gigabit backhaul network with carrier grade capabilities. Any future investment in LTE security networks including FirstNet should address specifications for networking and synchronization as implemented at carriers' networks.

- Fast and reliable deployment enabled by cascade and ring topologies
- Extended traffic monitoring and troubleshooting thanks to advanced signalling (OAM)
- High reliability and availability

Siklu's Next Generation Wireless Security Solution

Siklu's EtherHaul-600T V-band 60 GHz radio and the EtherHaul-1200 E-band 70/80 GHz radio provide Gigabit wireless throughput. They are based on an innovative integrated all-silicon design that reduces size, increases reliability and lowers cost. The all-outdoor units include on-board advanced networking and multiple ports so they can be deployed in cascade and ring topologies to increase resiliency of the wireless security network.

Daisy Chained Wireless Security Network

Street Level	Aggregation
EtherHaul™ 600T	EtherHaul™ 1200

Resilient Ring with Sub-50msec Recovery Time in a Street Level Security Network

POLICE Department

MUNICIPAL Command and Control

Street Level	Aggregation
EtherHaul™ 600T	EtherHaul™ 1200

* Based on the G.8032: standard based protocol that enables sub-50msec ring resiliency

Solution Benefits:

- Easily find available frequency, even in dense urban areas, using uncongested, interference-free 60/70/80 GHz bands.

- Support hundreds of real-time, full motion HD video streams with Gigabit throughput.

- Minimize truck rolls and maintenance with carrier grade reliability, over 90 years MTBF, hardened-IP67 enclosure and over 120 miles/hour wind resilience.

- Become invisible - street level and roof top units with the industry's smallest form factor. Size: (H x W x D): 5.9" x 6.1" x 3.54", 15cm x 15.5cm x 9cm

- 15 minute installation by non-Telco experts using auto-alignment and zero-touch tools.

- Unbeatable price/Mb, and a link won't cost more than your current wireless solution.

- Low latency, real-time traffic delivery - extend cascading options without compromising streaming delays.

- Telco grade features that are essential for the emerging FirstNet™.

- QOS and SLA for performance, service monitoring and diagnostics.

- Market leading millimeter wave solution - thousands of EtherHaul links are installed worldwide and operating smoothly in all weather conditions.

Street-Level EtherHaul-600T	Aggregation EtherHaul-1200

- Gigabit throughput
- Abundant interference-free unlicensed 60 GHz spectrum
- Can be installed on poles, traffic lights and buildings, copes with pole sway, twist and tilt
- Redundant ring or daisy chain topologies with no need for external switches
- 15 minute installation with auto-alignment
- Typical link distances: 200÷500m / 650÷1600ft – ideal for street level Networks.
- Powered via direct DC or PoE
- FirstNet-ready networking

- Gigabit throughput
- Abundant interference-free lightly licensed 70/80 GHz spectrum
- QOS and SLA for performance and service monitoring
- Redundant ring or daisy chain topologies with no need for external switches
- Typical distances of up to 2 mi / 3.2 km range – ideal for city wide networks
- Powered via direct DC or PoE
- FirstNet-ready networking

How Will You Future-Proof Your Wireless Security Network?

Contact us to discuss your needs:
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About Siklu

Siklu delivers Gigabit capacity millimeter wave wireless backhaul solutions operating in the 60, 70 and 80 GHz bands. Ideal for dense, capacity-hungry urban security networks, the ultra-high capacity wireless links can be easily and discreetly installed on the very same street fixtures as the security cameras. The most deployed mmW radios in the world, thousands of units are delivering carrier grade performance in varying weather conditions around the world.

www.siklu.com