

## Palm-Sized Gigabit Wireless System Developed to Provide Affordable and Scalable Small Cell Backhaul



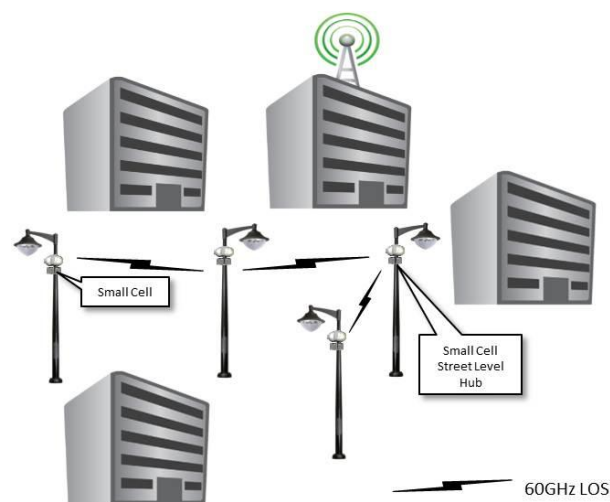
Mobile broadband data is growing at exponential rates and a single layer of macro cells can no longer support expected throughputs, no matter how densely deployed. Operators are planning to boost capacity by introducing a sub-layer of small cells complementing the existing macro cell overlay.

Small cells will be deployed at the street level - on anything from street lamps, street lights, electric poles and building sides - and are expected to have a practically invisible form factor. They will provide enough capacity to support 4G/LTE rollouts and beyond, in advanced network topologies necessary for dense deployment. Thousands of small cells are expected to support a typical urban mobile network, so their cost and associated installation and maintenance costs must be as low as possible.

Small cell backhaul will share characteristics of the small cell layer. The scale of the backhaul network requires an inexpensive solution that can be deployed quickly and easily. Street side deployment requires a very small form factor. Street topology dictates use of daisy chains and rings, which also offer increased resiliency.

Fiber is not a scalable or cost-efficient way to reach all small cell sites, so a wireless solution will play a dominant role. However, the traditional microwave spectrum isn't suited for street level installations. Wide beams and propagation characteristics will cause interference, and frequency planning for high capacity throughput will be close to impossible.

- ❖ Palm-sized all-outdoor system that's as easy to install as Wi-Fi
- ❖ 1 Gigabit throughput will support LTE/4G and beyond
- ❖ Operating at the unlicensed 60 GHz V-band, propagation characteristics make frequency planning easy and allow high re-use of spectrum
- ❖ Standards-based Carrier Ethernet capabilities for ring, mesh and multi add-drop and Sync-E/1588 support



Ultra small form factor, Gigabit millimeter wave wireless systems for uncongested, low-cost het-net backhaul

## Introducing the EtherHaul-600 Millimeter Wave Radio

A low cost, palm-sized Gigabit Ethernet millimeter wave system perfect for urban small cell backhaul. The EtherHaul allows you to rapidly expand your backhaul network using uncongested millimeter wave spectrum, and is as easy to install as Wi-Fi.

- Operates in the unlicensed 60 GHz wireless spectrum.
- 1 Gbps throughput future proofs the backhaul network.
- Palm-sized all-outdoor unit can be easily installed anywhere in the street level environment.
- Narrow beam width and propagation characteristics make it immune to interference, frequency planning is easy and high re-use of spectrum is possible.
- Standard-compliant advanced networking capabilities for deployment in daisy chain and ring topologies.
- Plug & Play - out of the box and into the SON with easy and quick installation and commissioning
- Advanced timing over packet handling (SyncE, 1588) enables the migration to packet-based backhaul.
- Low power consumption enables use of standard PoE supply, connecting the radio with a single cable for both power and data.



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### About Siklu

Siklu has been committed to reducing the cost of high capacity wireless backhaul solutions since 2008. The company's success centers on an innovative silicon-based design of the millimetric wave radio system and components that has resulted in the lowest cost millimeter wave systems available. Operating in the uncongested E-band / millimeter wave spectrum, Siklu's EtherHaul systems are ideal for rapid rollouts of high capacity connectivity.

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