

11 GHz licensed backhaul (Waleska, GA)

Case study



New 11 GHz Product Offering from LigoWave Exceeds Capacity Demands for Rural College Campus and Local Businesses

Nestled in the beautiful North Georgia foothills, in the quaint small town of Waleska, is Reinhardt College - a liberal arts college with over 1,300 students and faculty. Over the past few years, Reinhardt has been continually challenged with the goal of providing its students and faculty with top tier data services. As demand for more capacity-intensive data applications and services have increased, this has generated a continual strain on the available throughput serving the network. Unfortunately, given the remote location of the Reinhardt College campus, options were extremely limited and cost prohibitive to achieve the level of service demanded by the student and faculty population. Reinhardt approached One Ring Networks of Atlanta, GA for a solution to servicing its growing data capacity demands.



One Ring Networks

4000 Dekalb Technology Parkway
Suite 450
Atlanta, GA 30340

Main: 1.404.303.9900

<http://www.oneringnetworks.com>

“LigoWave’s licensed PTP products offer us a scalable network solution to meet the capacity demands of tomorrow’s networks” - Ryan Carney, One Ring Networks



<http://www.reinhardt.edu>

Employing LigoWave’s most recently launched PTP 620-S licensed technology, One Ring successfully integrated a 27 mile, 11 GHz link into a major network backbone. This new link has increased One Ring’s capacity to service not only the increased demands of Reinhardt College, but also an ISP and two medium-sized office buildings with over 100 Mbps of sustainable TCP throughput capacity. The installation has far exceeded the expectations of Reinhardt College and even allows for future network scalability as the student/faculty population increases and throughput demand increases.

One Ring Networks, one of the largest hybrid fiber/fixed wireless carriers in the United States, plans to replace several key backbone network links with LigoWave’s new PTP 620-S products. “These new products span a variety of licensed frequency bands from 7 to 26 GHz and offer us a scalable network solution to meet the capacity demands of tomorrow’s networks,” says Ryan Carney of One Ring Networks. The LigoWave PTP 620-S products offer full duplex capacity up to 310 Mbps with adaptive modulation capability (up to 256 QAM) to yield the utmost performance and reliability for critical link connectivity.



Facts and figures

- 27 mile (43 km), 11 GHz link, providing over 100 Mbps full duplex throughput
- PTP 620-S provides the major backhaul link servicing college campus, an ISP, as well as two medium sized business office buildings
- > 99.999% link uptime
- < 1 ms latency

