



CUSTOMER SUCCESS: SKYCOM1

Rain or Shine, Skycom1 Relies on HaulPass V60s V-Band Wireless Links

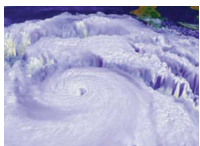


Founded in 2003, Skycom1 is a Wireless Internet Service Provider (WISP) offering fast, reliable, broadband wireless Internet access in the greater New Orleans, LA area. The company

specializes in high-speed wireless services for commercial buildings, apartment complexes, hotels, and other businesses.

Skycom1 has deployed multiple HaulPass V60s™ millimeter wave wireless V-Band radio links from Vubiq Networks for building-to-building broadband connectivity.

Flawless Performance in Extreme Weather



Extreme weather is a fact of life in New Orleans, particularly when it comes to heavy rainfall. It is a well-known fact that millimeter wave transmissions can be adversely affected by rain, a concept

known as rain fade. Skycom1's HaulPass V60s links were recently exposed to torrential downpours. In June of 2016, over 20 inches of rain fell in just three days. At the peak of the violent storm, rain totals exceeded two inches per hour.

"The HaulPass V60s links performed flawlessly throughout the heavy downpour," said James Ober of Skycom1. "Data throughput during the storm never dropped at all. Amazingly, throughput was nearly identical before the storm, during, and after – thanks to the ruggedized enclosure and intelligent AGC."

How is this flawless performance possible? After all, most V-Band radio vendors adjust to changing environmental conditions by reducing valuable bandwidth. This approach has limited benefits in terms of increasing link budget, but ultimately creates a



The HaulPass V60s wireless connectivity solution delivers unsurpassed performance for Skycom1, come rain or shine.

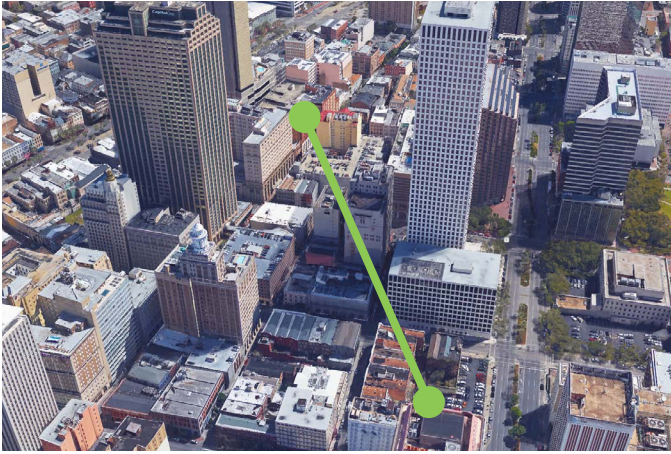
bottleneck elsewhere in the network. As an innovator in V-Band solutions, Vubiq has a much better alternative that is more efficient and does not affect bandwidth.

Maintaining Throughput with Intelligent AGC

HaulPass V60s radios incorporate advanced technology known as Intelligent Automatic Gain Control (Intelligent AGC). With this superior approach, network throughput is maintained even under the harshest environmental conditions.

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Skycom1's 440-meter line-of-sight HaulPass V60s wireless broadband link in the heart of New Orleans.

Better Performance than RSSI

The older technique of using Received Signal Strength Indication (RSSI) as the indicator of link quality, and then reducing the modulation rate in an attempt to maintain the link, essentially throws away performance at the cost of a minimal improvement of link margin. This is not a practical solution for today's bandwidth hungry world.

"Because of Vubiq's unique use of Intelligent AGC, as opposed to simply dialing down the bandwidth, our network throughput was maintained throughout the drenching rain," added Ober.

Meeting Customer Needs

"We are extremely pleased with our decision to deploy the HaulPass V60s links," continued Ober. "60 GHz millimeter wave technology is ideal for our line-of-sight, building-to-building applications. And Vubiq Networks has been an ideal partner in assuring the success of the deployment."

Ober reports that the V60s links were easy to install and align. Skycom1's customers are happy with the performance and reliability of the wireless links. "Our future plans call for additional V60s links as our business continues to grow," concluded Ober.

White Papers Explain the Advanced Technology

Want to learn more about the benefits of Intelligent AGC? Download these free white papers for all the details:

- Rain Fade Considerations in the Design of Millimeter Wave Radio Links: www.vubiqnetworks.com/wp-content/uploads/Vubiq_Rain_Fade_White_Paper_04APR24.pdf
- Intelligent AGC for Millimeter Wave Radio Links: Maintaining Reliability without Impacting Throughput: www.vubiqnetworks.com/wp-content/uploads/Vubiq_Intelligent_AGC_White_Paper_04APR24.pdf



Another V60s wireless point-to-point Skycom1 connection in New Orleans spanning 240 meters.

The HaulPass V60s Solution at a Glance

- Cost-effective, easy-to-deploy 60 GHz V-Band millimeter wave solution with immediate ROI
- Wire-speed, wireless Gigabit Ethernet connectivity
- Frequency division duplex (FDD) operation yields two gigabit aggregate throughput
- Fully integrated carrier-grade Ethernet switch
- 750-meter (0.5 mile) point-to-point range
- Compact ruggedized outdoor enclosure designed for extreme weather, weighing only 2.4 kg (5.2 lbs)
- Intelligent automatic gain control maintains network throughput
- Powered via POE+, drawing less than 15 watts
- Low latency (less than 50 μ s delay)
- SNMP support allows tight integration of wireless infrastructure into standard monitoring software
- A single, unified web interface for all RF and Ethernet switch configuration and monitoring

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