



## CUSTOMER SUCCESS: KINGSTON TECHNOLOGY

# Kingston Technology Connects with HaulPass V60s Wireless Broadband for Disaster Recovery and Campus Network Expansion



Kingston Technology is the world's largest independent manufacturer of memory

products. With global headquarters located in a six-building campus in Fountain Valley, California, Kingston employs more than 3,000 people worldwide. The company serves an international network of distributors, resellers, retailers and OEM customers on six continents.

Kingston has deployed multiple HaulPass V60s millimeter wave wireless Gigabit Ethernet links from Vubiq Networks for disaster recovery and expansion of its campus-wide Ethernet network.

### Redundant Datacenter-to-Datacenter Broadband V-Band link for Disaster Recovery

"We installed our initial HaulPass V60s wireless link as a redundant datacenter-to-datacenter disaster recovery connection," said David Flores, Senior Network Administrator at Kingston. "We have two main datacenters located in separate buildings, connected via underground fiber-optic cable. However, should disaster strike in the form of an earthquake or flood — or something else unexpectedly happen to disrupt our fiber connection — we're fully protected thanks to our rooftop-based, line-of-sight wireless Gigabit Ethernet backup link."

Southern California is known for both seismic activity and extreme weather, so establishing a prudent disaster recovery strategy is an important business consideration for the company.



The HaulPass V60s wireless V-Band data connectivity solution delivers unsurpassed performance and reliability for Kingston technology.

### Customer Solution at a Glance

**Business Need:** Kingston Technology required building-to-building wireless Gigabit Ethernet links for disaster recovery and campus network expansion.

**Vubiq Solution:** Kingston selected the HaulPass V60s, a 60 GHz V-Band broadband wireless solution that delivers low-latency, full-duplex Gigabit Ethernet transport speeds in a small, ruggedized, easy-to-install enclosure.

#### Bottom-Line Benefits:

- Cost-effective license-free operation
- High immunity from interference
- Easy and cost effective to deploy



The Kingston Technology Campus in Fountain Valley, California

Seasonal heavy rains and flooding are facts of life in Southern California, so Kingston relies on the HaulPass V60s built-in Intelligent Automatic Gain Control technology, which maintains network throughput even under the harshest environmental conditions. Unlike other V-Band vendors who adjust to changing environmental conditions by reducing valuable bandwidth, HaulPass V60s links maintain gigabit throughput speeds regardless of extreme weather conditions.

### Campus Network Expansion

"We installed our second HaulPass link when we leased a new building and needed to link it to our high-speed campus network," said Flores. "Rather than having to dig trenches and install fiber — or go through the ongoing expense of leasing a fiber-optic circuit from the phone company — we opted to go with a second license-free HaulPass link to connect the new building."

"Installing, aligning and configuring the V60s links was an easy and straightforward process," continued Flores. "We simply ran CAT5e cable to the rooftop, mounted the V60s units on poles, and then used the supplied scopes to align the rooftop-to-rooftop link. Furthermore, it was a simple process to configure the integrated Gigabit Ethernet switch into our campus network."

### HaulPass V60s Benefits

In selecting the HaulPass V60s solution for point-to-point wireless connectivity, Kingston Technology was impressed with the numerous benefits provided by the solution, including:

- Wire-speed, wireless Gigabit Ethernet using frequency division duplex (FDD) operation, yielding two gigabit aggregate throughput
- Cost-effective, easy-to-deploy solution with immediate ROI

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**David Flores**  
Senior Network Administrator  
Kingston Technology

- 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 to maintain network throughput under the harshest environmental conditions
- Powered via POE+, drawing less than 15 watts
- Low latency (less than 50  $\mu$ s delay)
- SNMP support for tight integration of wireless infrastructure into standard monitoring software
- A single, unified web interface for all RF and Ethernet switch configuration and monitoring

"Overall, we're very impressed with the performance and reliability of the HaulPass V60s links, as well as the excellent support provided by Vubiq Networks," concluded Flores.

### HaulPass V60s Specifications

<b>Carrier Frequencies</b>	Low 58.85 GHz, High 63.17 GHz
<b>Channel Bandwidth</b>	1.5 GHz
<b>Throughput</b>	Full duplex one gigabit Ethernet (two gigabit aggregate)
<b>Link Range</b>	Up to 750 meters (0.5 miles) line of site
<b>Overall Latency</b>	<50 $\mu$ s delay
<b>Beamwidth</b>	1.8° at -3 dB

### Vubiq Networks, Inc.

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