



LigoWave

LigoDLB 6-15ac

CASE STUDY

Russia

Scenario

One of LigoWave's clients from Russia has set up a PTP test link with 2x LigoDLB 6-15ac devices. On one end, a 6-15ac was mounted on an antenna ladder, while on the other—on a private house. The link extended 1.01km over a remote open field. Such a site guaranteed a low-noise setting and high result accuracy.

Product

LigoDLB 6-15ac is a wireless 6GHz bridge made for video surveillance & last-mile scenarios. It comes with a 750MHz QCA 9563 CPU, 64MB RAM/16MB Flash Memory, a 30dBm QCA 9882 radio, and a 15dBi integrated directional panel antenna.

The 6-15ac supports 256-QAM, QoS functionality, and the iPoll 3 protocol. This allows the device to deliver over 500Mbps of throughput & 100,000+ packets per second.

LigoDLB 6-15ac uses the iPoll smart polling protocol to get rid of transmission congestion and close-cluster interference. This effectively reduces latency, stabilizes jitter and increases CPE count to boost throughput and guarantee reliability in noisy settings.

Results

Link signal levels were at -66~-59dBm. The 6-15ac link used the iPoll 3 proprietary protocol. The packet-per-second rate topped 100,000PPS.

Tests over the 20MHz channel width provided optimal results: 120Mbps using TCP and 125Mbps using UDP aggregated duplex. Test results over the 40MHz channel width were 165Mbps using TCP and 220 using UDP aggregated duplex. The 6-15ac reached peak performance over the 80MHz channel width with 254Mbps using TCP and 500Mbps using UDP aggregated duplex.

LigoDLB 6-15ac



1km Link



100,000+PPS



Map | LigoDLB 6-15ac Link (1.01km)

The screenshot shows the LigoWave management interface. At the top, there is a navigation bar with icons for information, settings, tools, a first aid kit, and a wireless signal. On the right, system status is displayed: Uptime (2 hours 50 min. 19 sec.), CPU load (15%), and network status (eth0: 1000BaseT/full, 1 stations).

The main section is titled "WIRELESS NETWORKS" and includes a search bar with the text "Enter keyword to filter results". Below the search bar, the SSID is identified as "LINK_DLB-6-15ac". A status indicator shows "Total stations/limit: 1 / 128".

Station	IP address	Local Signal, dBm	Remote Signal, dBm	SNR, dB	Tx/Rx rate, Mbps	Link uptime
00:19:3B LigoDLB 6-15ac	192.168.200.12	-66 / -61	-65 / -59	42 / 47	360 / 360	1 min. 10 sec.

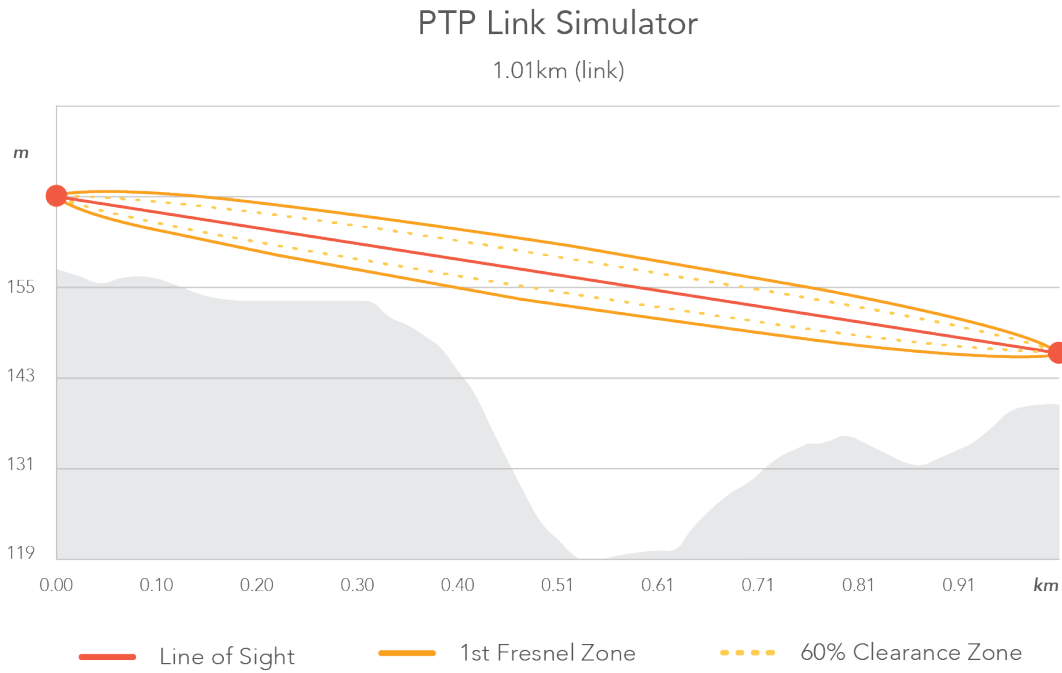
A "Kick selected" button is located below the table.

Table | LigoDLB 6-15ac Link



	20MHz	40MHz	80MHz
TCP Aggregated Duplex (Mbps)	120	165	254
UDP Aggregated Duplex (Mbps)	125	220	500

Table | Link Performance Results



Contact Us

Need a 6GHz wireless network solution for your projects?
Get in touch: sales@ligowave.com

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