



LigoWave

LigoPTP RapidFire 5 – 23

LINK REPORT

Taiwan



LigoPTP RapidFire 5-23

Smangus, Hsinchu County

Taiwan is a predominantly mountainous area. Therefore, establishing practical and efficient telecommunications solutions is key to connecting the different areas of the country. Chung-Hwa Telecom (CHT), Taiwan's leading telecommunications company, has taken upon itself to deliver reliable high-speed connectivity to the hard-to-reach places located on the mountain area of the island.

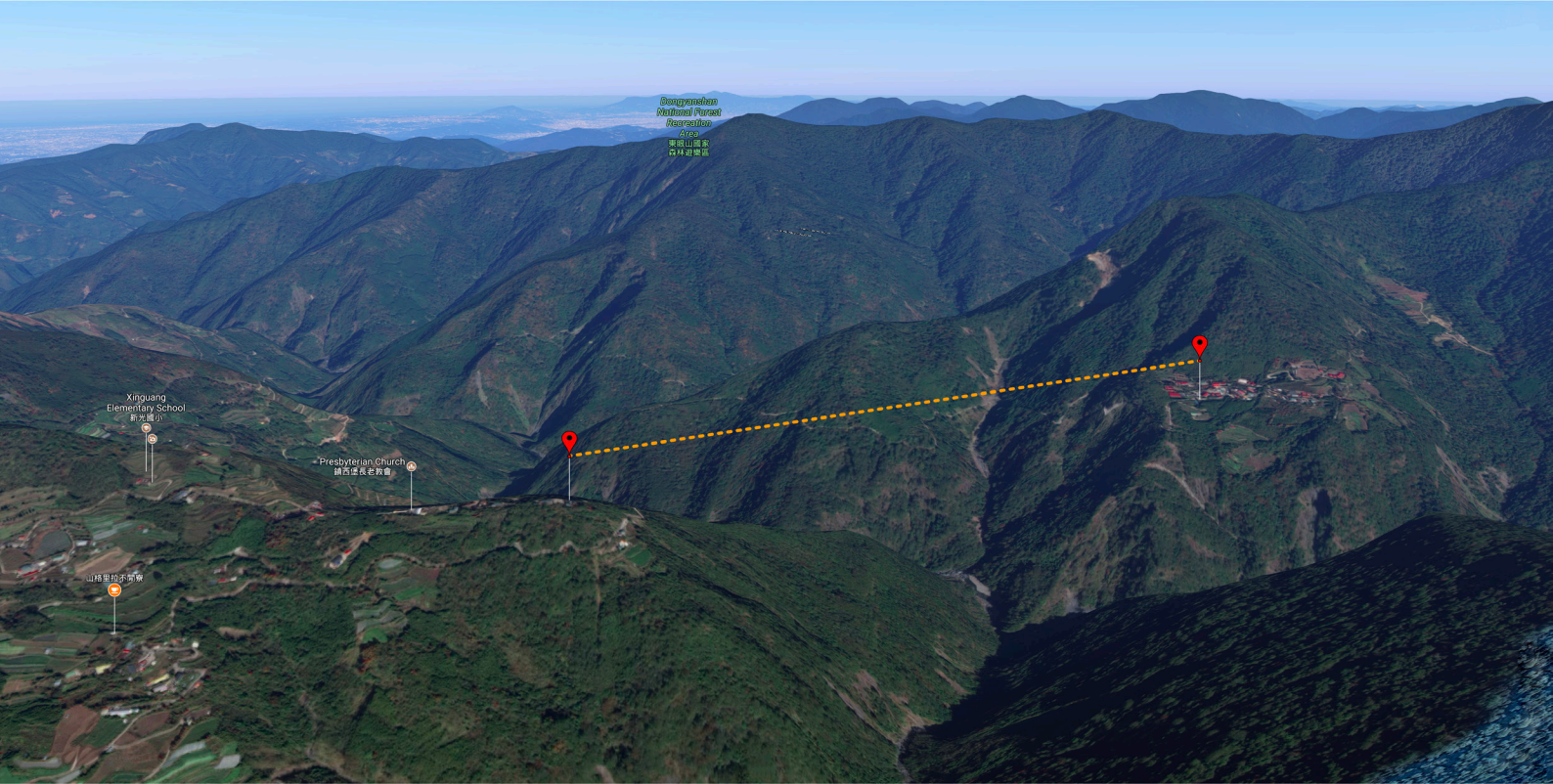
In April, 2017, CHT has implemented a wireless backhaul solution over a deep valley found in the Smangus of the Hsinchu County, a traditional aboriginal area. Due to the geographic situation of the area, fiber-optic solutions were not an option, so CHT has deployed a set of high-performance LigoPTP RapidFire 5-23 devices. The aim was to deliver IP TV to CHT subscribers as a part of their multimedia on demand (MOD) services.

The RapidFire devices were deployed 2.3 kilometers apart with Stations A and B located at altitudes of 1,500 and 1,700 meters respectively. The 5GHz link allowed for throughputs reaching an average of 550Mbps over an 80MHz channel—ideal for delivering cost-effective and reliable multimedia on demand services. Local station signal levels reached $-54/-56$ dBm, while the remote station signal performed at $-59/-60$ dBm.

Brief Summary

Criterion		Value
Distance between Sites		2,312 km
Altitude – Station A		Approx. 1,500 m
Altitude – Station B		Approx. 1,700 m
Frequency		5,800.0 MHz
Channel Width		80 MHz
Average Throughput		550 Mbps
Maximum Possible Throughput		700 Mbps
Signal Levels	Master	-54/-56 dBm
	Slave	-59/-60 dBm
Tx Power		31.0 dBm
Antenna Gain		23.0 dBi

Table | Weitech Link Analysis Report



Picture | A site map of the PTP link.

