

OvisLink

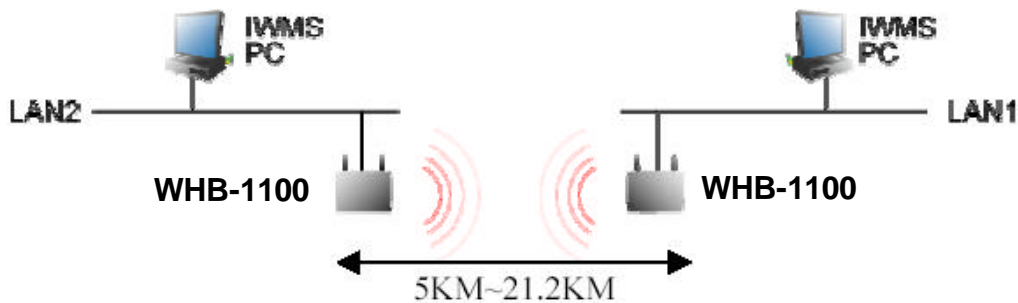
WHB-1100 Outdoor Bridge Range Test

1. Introduction

The purpose of this project is to test the WHB-1100 Outdoor Bridges and 18dBi Antennas to be the outdoor solution if it's range reach 10 kilometers in all kinds of climates.

2. Methodology and Environment

- ☞☞ Climate: a harsh climate and a sun day
- ☞☞ A pair of WHB-1100 Outdoor Bridges with 18dBi Antennas
- ☞☞ Two Notebooks and completed testing software.
- ☞☞ Environment:



3. Test results

Following are the throughput of outdoor solution:

I. In a harsh climate:

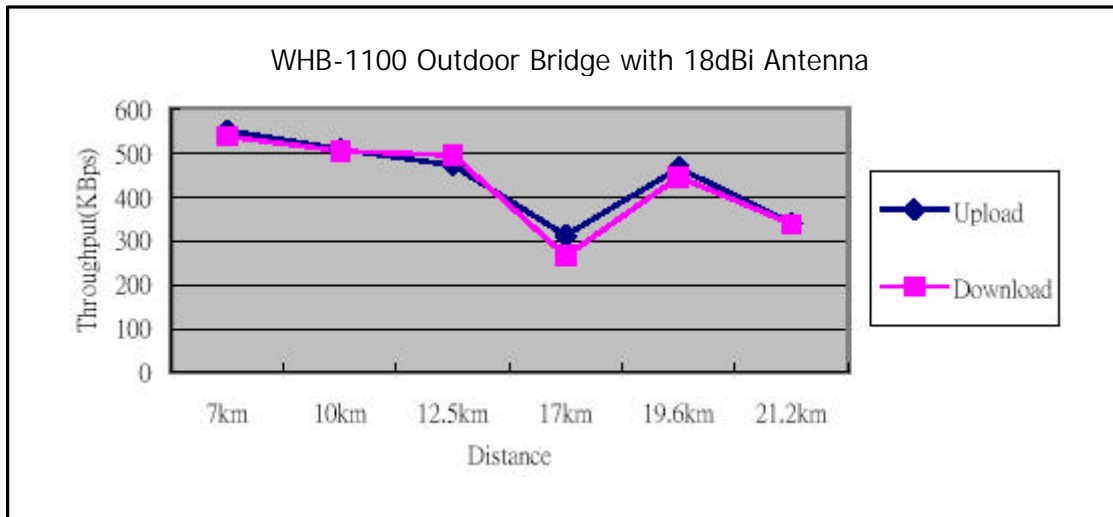
At the distance about 7 kilometers, throughput is too low to finish FTP test, we can only run ping test.

Distance	Upload (Mbps)	Download (Mbps)
5km	2.0	1.9

II. In a sunny day:

Distance	Upload (Mbps)	Download (Mbps)
7km	4.4	4.2
10km	4.1	4.0
12.5km	3.7	3.9

17km	2.5	2.1
19.6km	3.7	3.5
21.2km	2.7	2.7



Please Note that 1KBps(kilobyte) = 8 Kbps(kilobit) = 0.008Mbps

4. Test summary

- ✂ In a harsh climate, the range can reach 7 kilometers.
- ✂ In a sunny day, the range can be up to 21.2 kilometers or more.
- ✂ At distance 17 kilometers, throughput only reached 2.1~2.5Mbps due to the angle factor and multi-path.