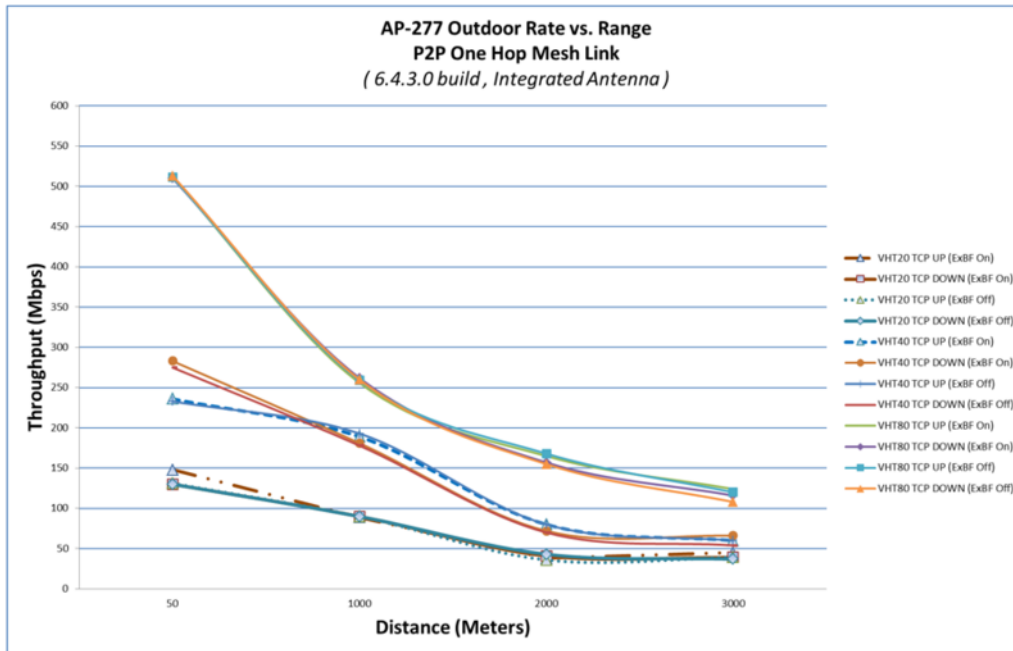


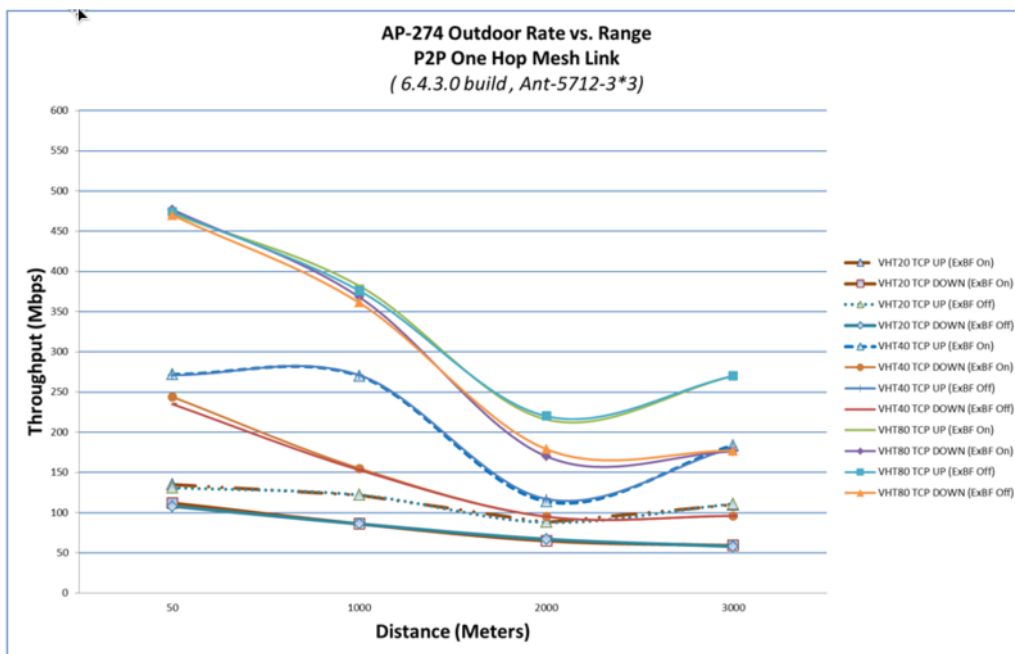
AP-277 to AP-277 Mesh Link Performance [\[edit\]](#)

The AP-277 is ideal for short PtP links under 1km. While links can be built out at longer distances, care should be taken to survey surrounding RF interference. The 277 has an 80deg x 80deg integrated directional 6.5dBi antenna, as such, it can pick up a fair amount of RF interference in dense areas. While the 274 with a narrower directional antenna will outperform the 277, in some cases performance may not be as critical, and the lower product and install cost may make the 277 a more viable option.



AP-274 with ANT-3x3-5712 Antenna Mesh Link Performance [\[edit\]](#)

The ANT-3x3-5712 antenna is a 70degH x 25degV antenna. While it has 3 stream support, maximum distance using this antenna should be 3km or less. Long-range testing showed that the ANT-3x3-5712 was inferior to the results from the ANT-2x2-5314 antenna. In general, the 3rd spatial stream is not detected out past 2-3km, so anything farther should be using a more narrow 2x2 antenna with 90-deg polarization between then antennas, like the ANT-2x2-5314.



AP-274 with ANT-2x2-5314 [\[edit\]](#)

While no multi-distance graphs are yet done for the ANT-2x2-5314 antenna, long-range testing at 8km/5mi has been done using the ANT-2x2-5314. The results were as follows:

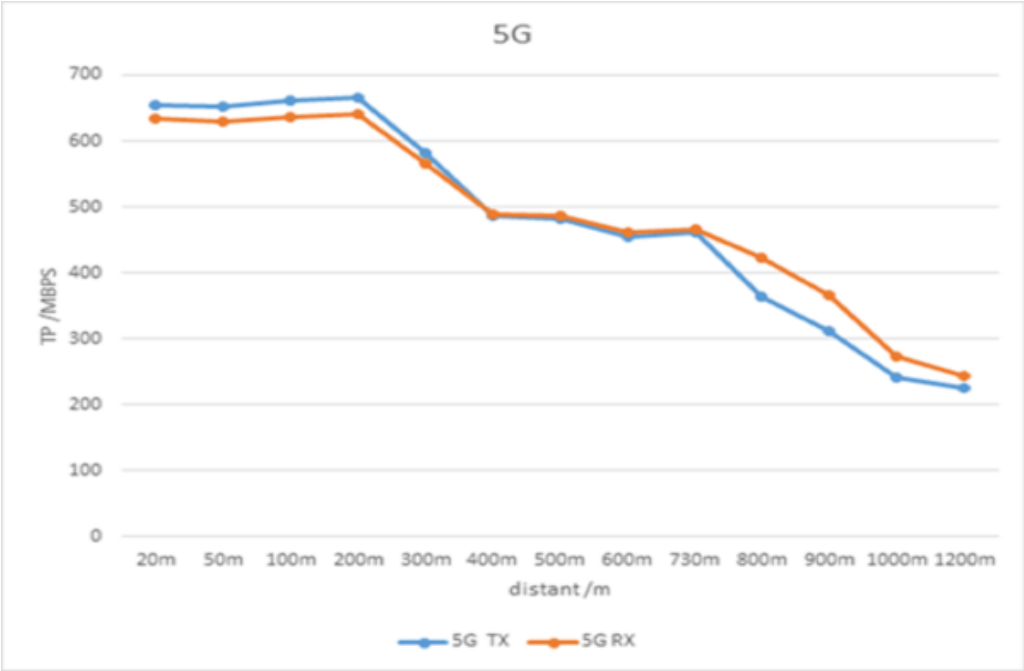
AP274+ANT-2x2-5314 (with terminator on CH2) @ 8km:

==> HT20 - 20-25Mbps
 ==> HT40 - 40-45Mbps
 ==> VHT80 - 70-75Mbps

As such, it's safe to state that you can safely build a mesh link with at least 25Mbps HT20 or up to 75Mbps VHT80 at 5miles using the AP-274 and ANT-2x2-5314. Further testing in the future will include variable distances (1km/2km/3km/5km/7km/10km/12km increments) focusing on maximum mesh link performance using the 30deg 5314 antenna.

AP-367 to AP-367 Mesh Link Performance [\[edit\]](#)

- Engineering data for now, will update with physical captures when done.



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