

Technical Bulletin #9905

6-28-01

Subject: Recommendation of 1.2 meter Ku-band Antennas

While SpaceCom has been successful in acquiring space with minimal adjacent satellite interference, the increase in the number of satellites in the orbital arc has subsequently increased the likelihood of inter-satellite interference between adjacent satellites.

SpaceCom completed exhaustive testing of the effects of 2-degree spacing between two adjacent satellites, on our Ku-Band services that utilize multiple small receive antennas. The findings confirmed that any antenna smaller than 1.2 meters in diameter could suffer degradation beyond the desired standard of operation, due to future occurrences of inter-satellite interference. The testing also confirmed that a 1.2 meter antenna would operate effectively in the current Ku-Band environment.

While the specifics of downlink hardware and installation remain the choice of SpaceCom's customers, SpaceCom believes the added security of the 1.2 meter antenna (compared to an antenna smaller than 1.2 meters) outweighs the small incremental cost incurred for the 1.2 meter antenna. Therefore, SpaceCom recommends a 1.2 meter antenna as a minimum for any new installation that plans to receive our Ku-Band services.

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