

Directional Antenna Description

The X-band antenna, centered around 8.225 GHz, is a patch antenna installed nadir pointing on the Dove 3/4 satellites. Maximum gain is 5 dBi at the antenna zenith. The gain drops to -1 dBi at elevation angles of 10 degrees. The 3dB beamwidth is 90 degrees. The polarization is RHCP.

The S-band antenna, which covers 2.4 to 2.5 GHz, is a patch antenna also installed nadir pointing on the Dove 3/4 satellites. Maximum gain is 5 dBi at the antenna zenith. The gain drops to -1 dBi at elevation angles of 10 degrees. The 3dB beamwidth is 90 degrees. The polarization is RHCP.