

ELTA North America Request for FCC Experimental License

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Question 4: Directional Antenna Information

The TAC-4G system is a man-portable LTE cellular base station designed to provide quickly deployable, broadband communications for the Department of Defense. For testing and demonstration purposes the ELTA TAC-4G LTE cellular phone system will include two antennas: a 16 dBi directional antenna and a 7 dBi omnidirectional antenna.

The half-power beamwidth of the directional antenna is 65 degrees in the horizontal direction and 15.5 degrees in the vertical direction. The polarization of the directional and omnidirectional antennas are +/- 45 degrees and linear vertical, respectively.

The antennas will either be mounted on a tripod or a soldier backpack such that the maximum antenna height is 6 meters. The demonstrations will typically have a maximum antenna height of 2.5 meters.