

EchoStar Broadband

Exhibit 3

Antenna Information

Any of the following types of antennas (or similar) may be used in the WiMAX trial experiments at various locations and orientations in Georgia, Missouri or Kansas:

2.5 GHz Band Antenna Information:

Antenna Beamwidth	Gain (dBi)
Omni-directional	3
65 degree sector	11
90 degree sector	10
120 degree sector	8
21 degree subscriber	15

3.5 GHz Band Antenna Information:

Antenna Beamwidth	Gain (dBi)
Omni-directional	8.5
60 degree sector	17
75 degree sector	13.5
90 degree sector	14.5
120 degree sector	13
18 degree subscriber	15
16 degree subscriber	18
15 degree panel subscriber	18.5
8 degree panel subscriber	24