

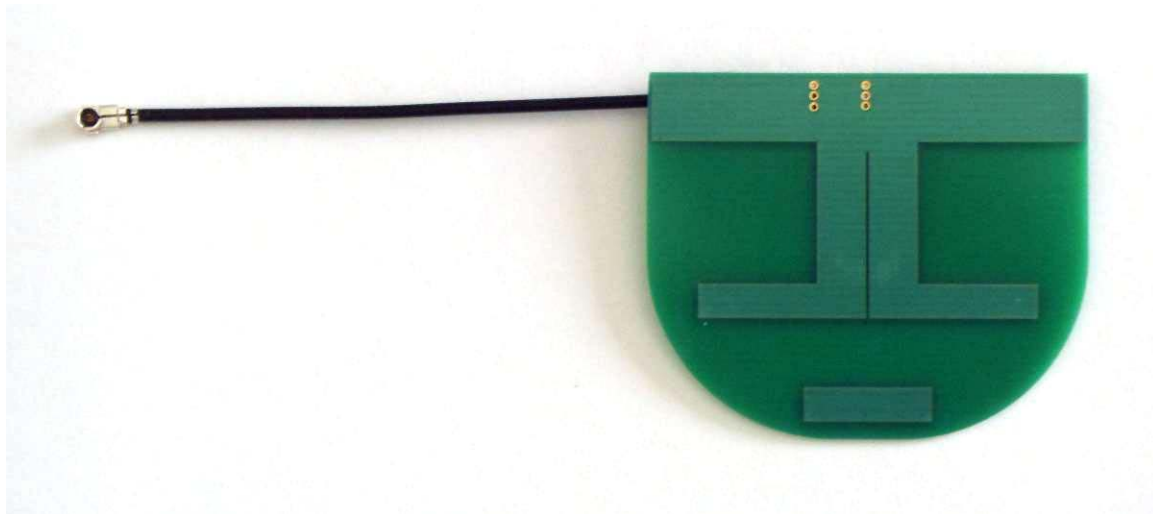
Alereon AL51000 Antenna Characteristic

The AL51000 antenna is a directional type antenna was originally designed for use in the AL5730 Worldwide Wireless HDMI PC Extender. The topology of this antenna is a broadband dipole radiator with a reflector and director element. The objective of this topology is to produce an antenna having a broadly directional characteristic. The AL51000 is designed for operation between 3.168 GHz and 4.752 GHz, the WiMedia UWB Band Group #1.

1. AL51000 Antenna



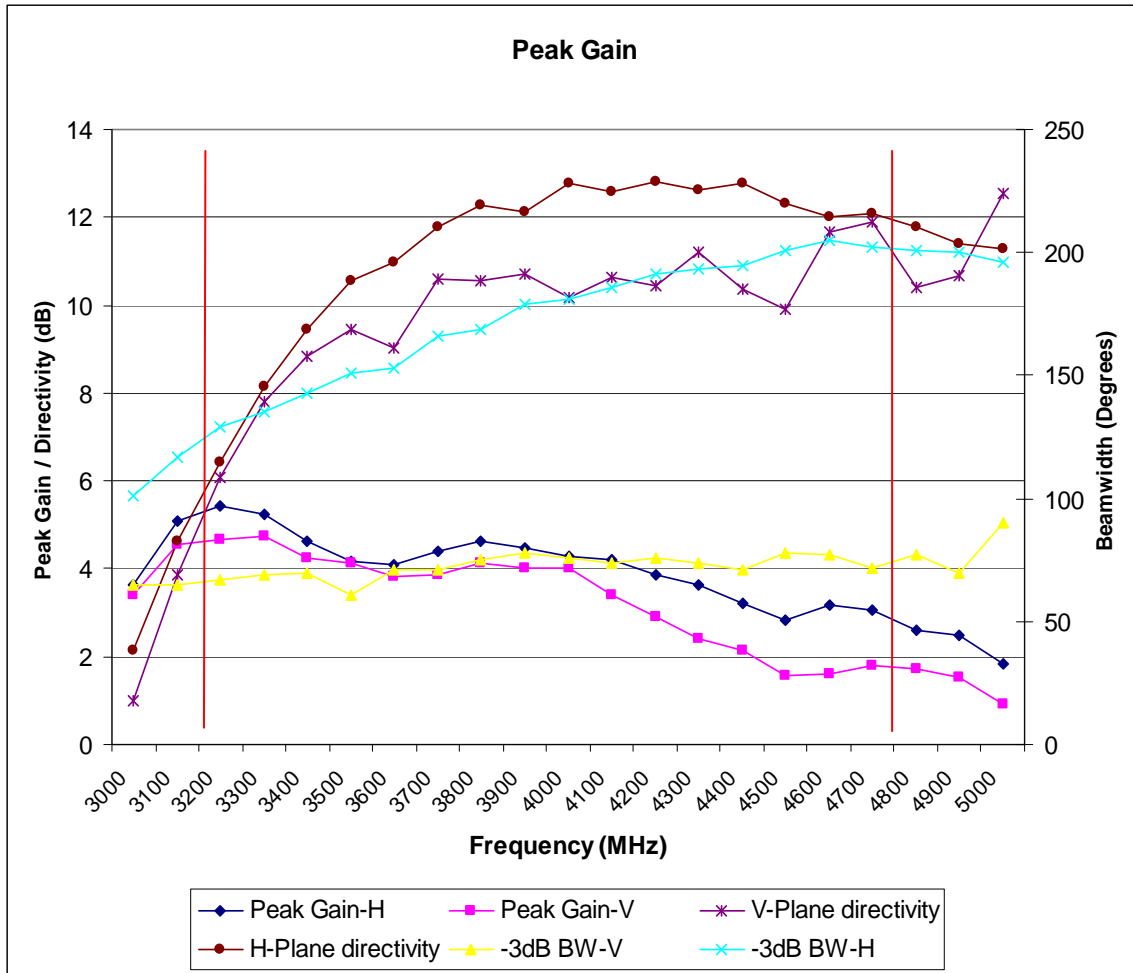
Feed side, connecting cable attached.



Elements side.

The following data plots describe the gain and radiation pattern of this antenna.

2. Gain vs. Frequency



AL51000 BG#1

Frequency (MHz)	Peak Gain (dBi)	V Beamwidth (°)	H Beamwidth (°)	H directivity (dB)
3432	4.25	70	143	9.43
3960	4.02	76	181	12.79
4488	1.57	78	201	12.32

3. Radiation Pattern

