

## **Antenna information for the Avnera AVMD7500 modular transmitter product**

This AVMD7500 modular transmitter product certified under

United States [FCC ID V3CAVMD7500A](#)

and

Industry Canada [IC: 7853A-AVMD7500A](#)

is designed to use external antennas connected to the module through 50Ω coax.

The module was certified using a pair of printed dipole antennas, a photo of which is shown on Slide 2, below. This antenna design has been characterized by an independent testing laboratory and shown to have a maximum gain of +4.7 dBi over the range of the 2.4-2.5GHz ISM band; a polar plot showing the maximum gain radiation pattern is shown on Slide 3.

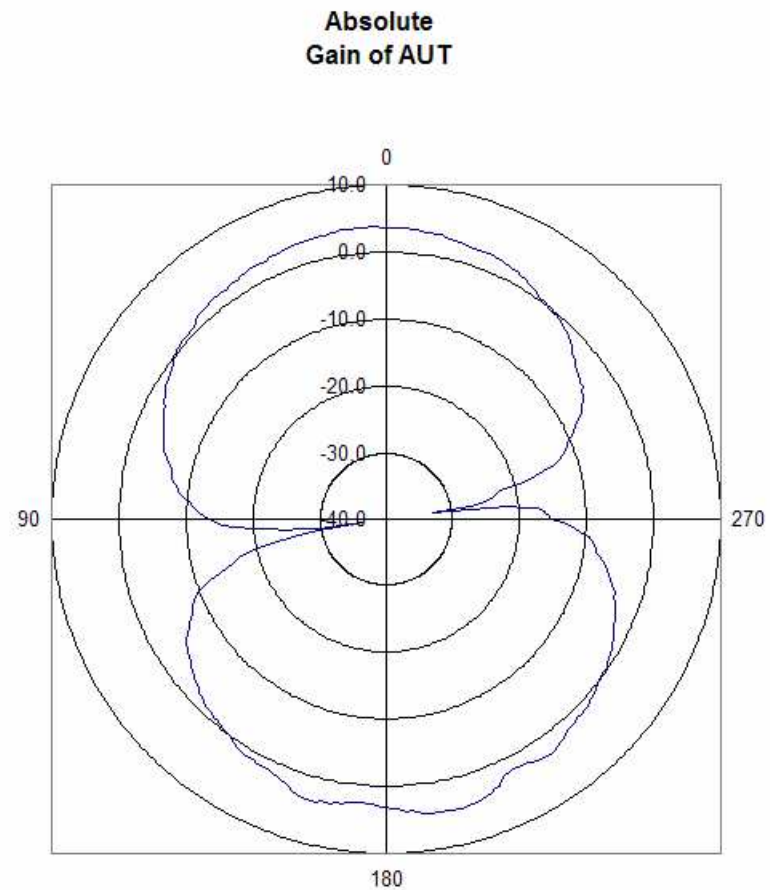
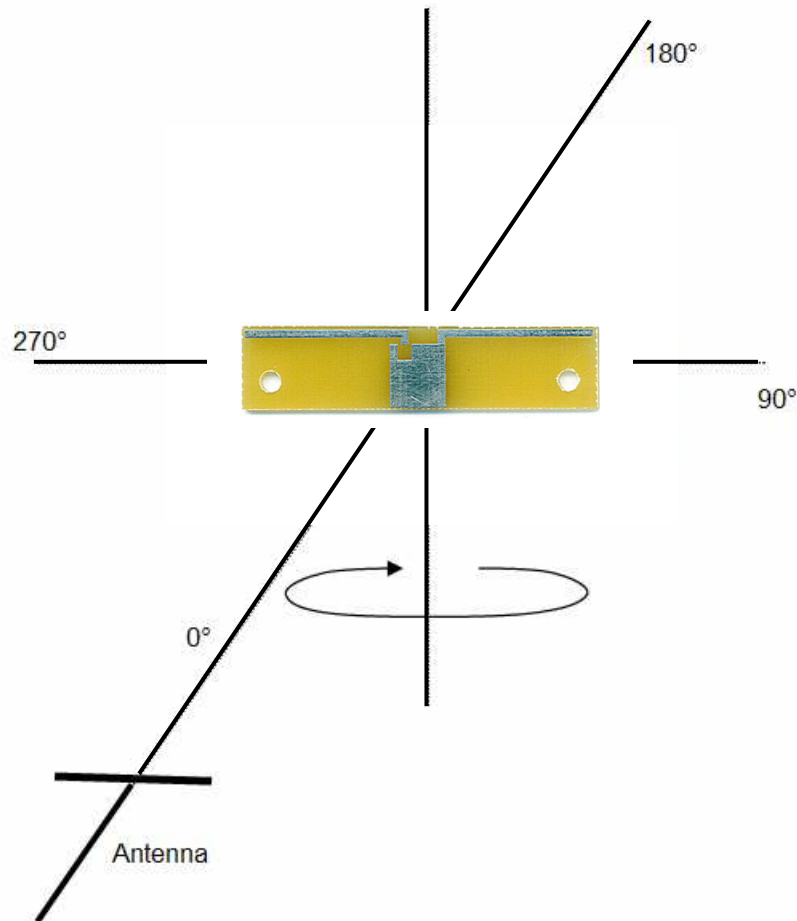
Slide 4 lists commercially available antennas that meet the criteria for antenna class and maximum gain and would be suitable for use in place of the Avnera antenna.

**Reference antenna used for  
Avnera AVMD7500 module certification**



Avnera P/N AVTF57

## Radiation pattern of reference antenna under measurement conditions for maximum gain



Antenna gain  $\leq +4.70\text{dBi}$  over the ISM band

## Allowable alternative antennas suitable for use with the AVMD7500 module

Manufacturer	Part No.	Type	Maximum Gain
Pulse	W1010, W1049B W1030, W1034 W1045	Dipole	2 dBi
Pulse	W1037, W1027	Dipole	3.2 dBi
WiFi-Link	WL-DA-3-RSMA	Dipole	3 dBi
Centurion	EXR2400	Dipole	3 dBi
Cisco	AIR-ANT4941	Dipole	2.2 dBi
Joymax Electronics	IWX-241XRSXX	Dipole	2 dBi
Solwise	NET-WL- ANT002OMC	Dipole	2 dBi