

Antenna information for the Avnera AVMD7500 modular transmitter product

This AVMD7500 modular transmitter product certified under

United States [FCC ID V3CAVMD7500A](#)

and

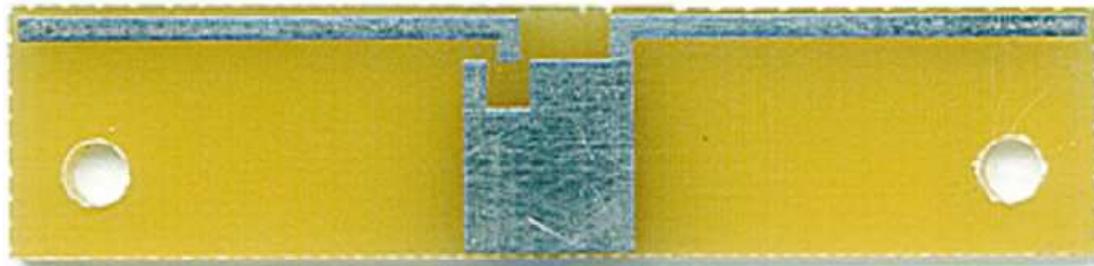
Industry Canada [IC: 7853A-AVMD7500A](#)

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.

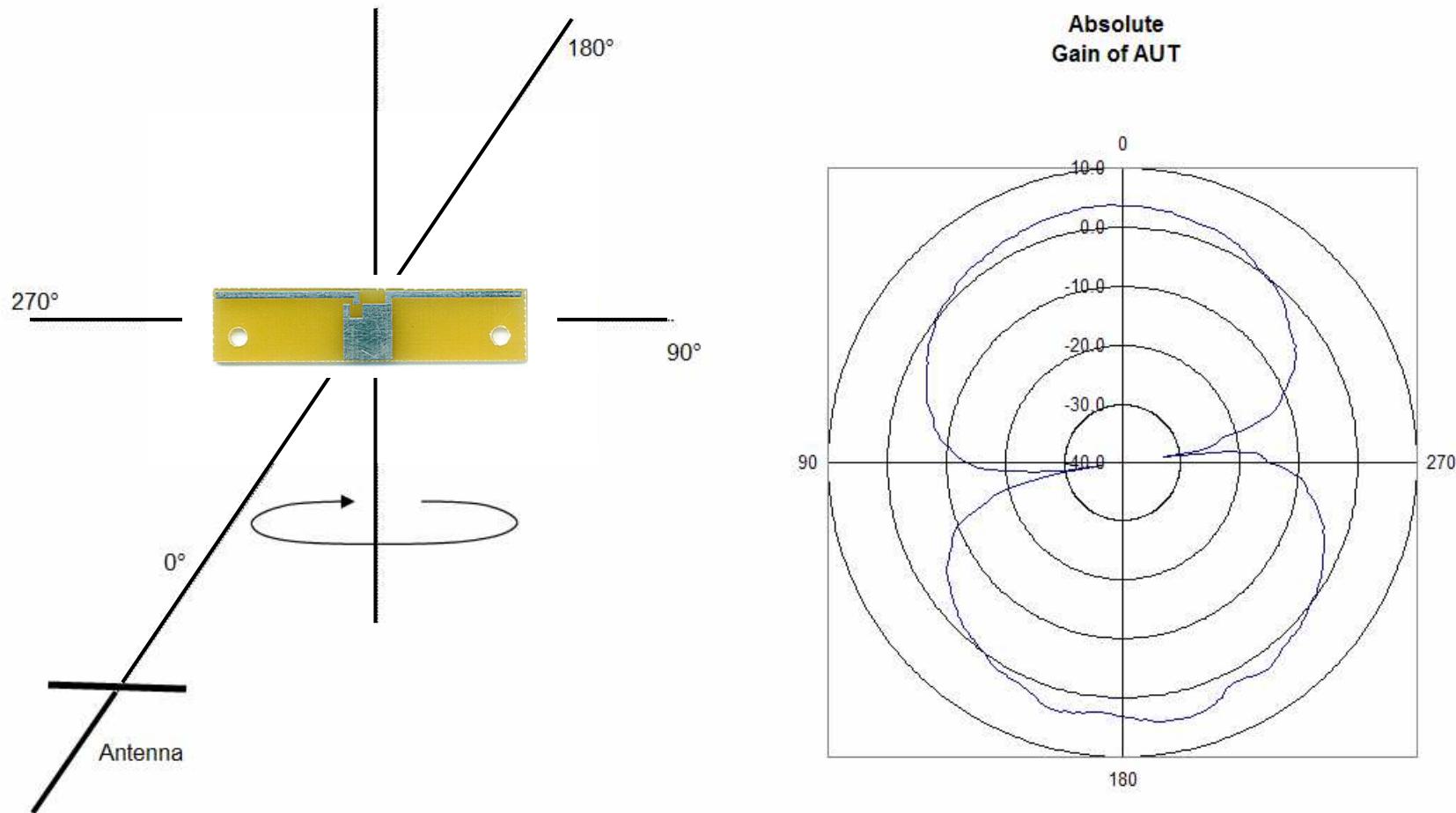
Slide 4 lists commercially available antennas that meet the criteria for antenna class and maximum gain and would be suitable for use in place of the Avnera antenna.

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