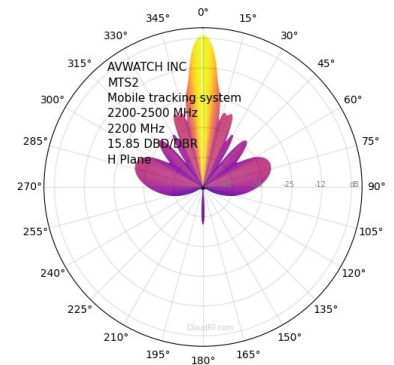


Antenna patterns

Quick reference

Option 1: Select a template

- Open the Antenna sub-menu and click the green antenna icon to open the antenna database modal window
- Type in a search term. This can be an OEM or a model for example "290-70"
- Select the pattern and click the green plus button to add it to your favourites
- Now you can find it in your "Pattern" list. Select it and set the polarisation, the **peak gain in dBi**, azimuth and (down) Tilt.
- Tilt is measured in degrees from the horizon where a positive value is towards the earth.



Antenna database

Search by manufacturer, model or description

Search: 🔍

Manufacturer	Pattern
RADIO FREQUENCY SY.. (158)	290-70_V.ADF
GENERIC (134)	433-70_3_V.ADF
RF INDUSTRIES RFI (81)	480-70_V.ADF
ZCG SCALAR (68)	6DBYAGICMP.ANT
RF Industries Pty.. (47)	6DBYAGICMP.ANT
HILLS (46)	7039420_420.ADF
POLAR ELECTRONIC I.. (46)	7039420_420.ADF
OEM (10)	7039420_420.ADF

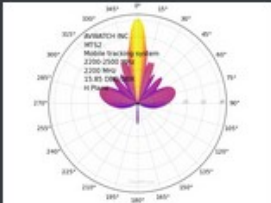
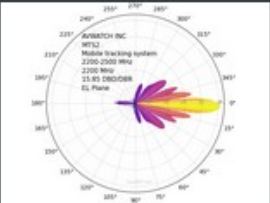
Manage My Antennas

ID 26291
 Name 290-70_V.ADF
 Description CP290 SERIES VHF YAGI ANTENNAS VERTICAL POLARIZATION
 Frequency 148MHz to 158MHz
 Gain 9.02dBd / 11.17dBi
 Polarisation VV

📶 Antenna ⌵

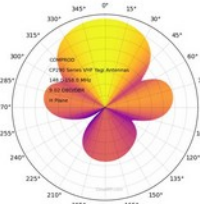
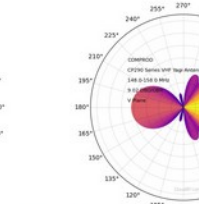
Origin 📶 ?

Pattern ⌵

Polarisation ⌵ Gain ⬆️ ⬆️ dBi

Azimuth ⬅️ ↻ Tilt ⬆️ ⬆️ ?

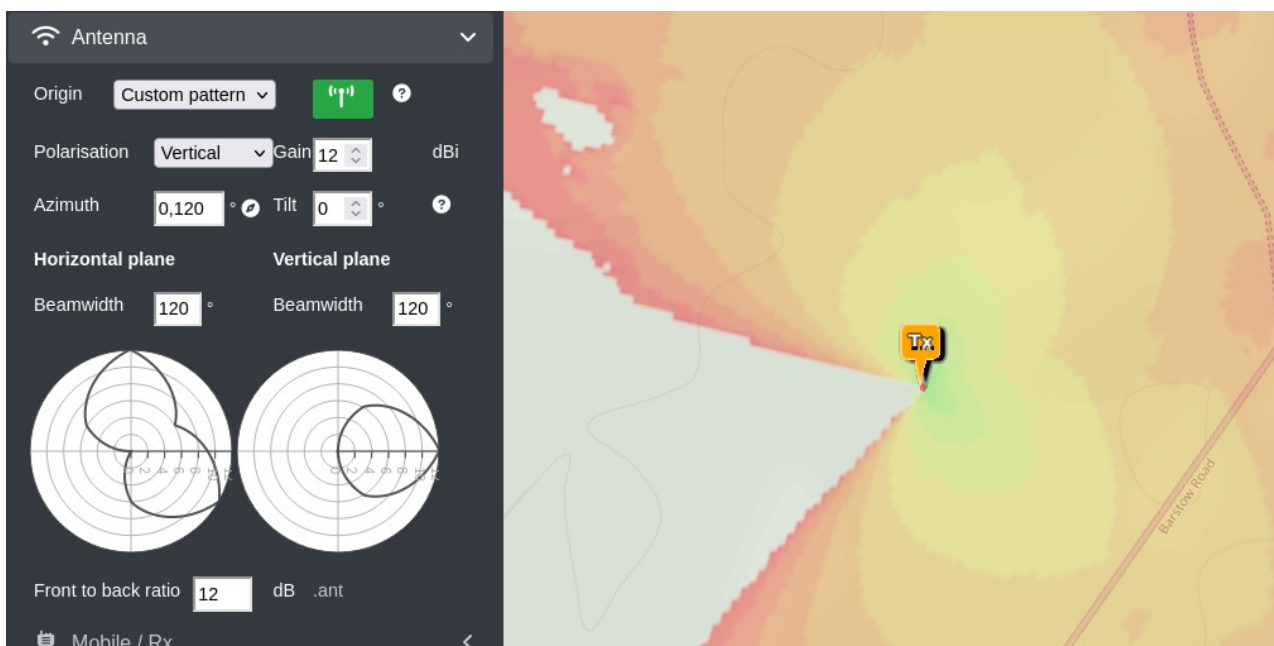



+ -

Add or remove from my pattern list

Option 2: Create a custom pattern

- Select “Custom pattern” in the Antenna origin select
- Define the polarisation, gain, azimuth and tilt
- Set the horizontal and vertical beamwidth, measured at the -3dB power point
- The front-to-back ratio should normally equal the gain or be higher for a parabolic for example
- For multiples of the same pattern on different azimuths, enter the azimuths as comma separated values. For a cell tower with 3 panels this might be “0, 120, 240”



Import new templates

Standards compliant ADF templates can be validated and imported via the “Manage My Antennas” link available in the interface. A validator is also on cloudf.com.

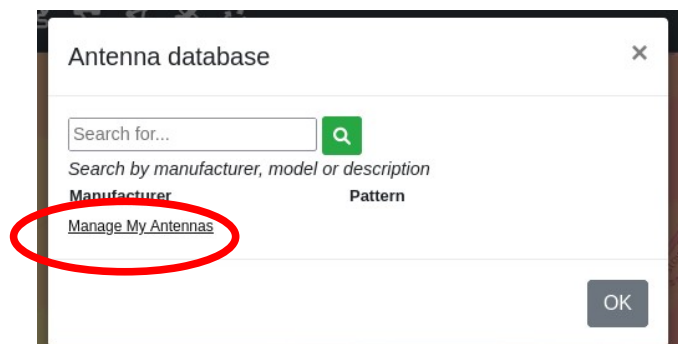
TIA-804b NSMA “ADF” antenna validator:

<https://cloudf.com/tia-eia-804-b-nsma-antenna-validator/>

System antenna database and import utility

(Login required):

<https://cloudf.com/API/antennas>



<https://cloudf.com>