PRODUCT SPECIFICATION

Part No.	TAMP101.W.NF30
Product Name	4G/5G Wideband FWA Antenna Module 690 MHz to 4200 MHz
Features	Wideband High gain antenna module for FWA application. Covers Worldwide 3GPP frequency bands: 4G/LTE Bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B25, B26, B28, B65, B66, B68 5G Sub-6 Bands: n1, n2, n3, n5, n7, n28, n40, n41, n77, n78 RoHS Compliant Stand and wall mounted type

INTRODUCTION

The TAMP101 antenna is a directional, wall mount antenna used for connecting wireless communication devices such as Consumer Premise Equipment (CPE) or repeaters to a network base station. It is designed to be mounted directly on glass or on the wall of buildings.

Typical applications

- Enhanced mobile coverage range in rural and urban areas
- Upgrade from 4G/LTE to 5G service coverage
- HD Video / high data rates over mobile

This patent-pending antenna delivers best in class antenna gain technology for worldwide 4G LTE bands at 700MHz / 800MHz / 900MHz / 1700MHz / 1800MHz / 1900MHz /2100MHz, plus worldwide 5G bands at 700MHz / 800MHz / 1700MHz / 1900MHz / 3300MHz to 4200MHz.

Wireless applications of today demand higher speed data uplinks and downlinks than ever before. Higher efficiency and higher gain antennas are necessary to achieve the throughput necessary for these next generation wireless connections. By using its patented antenna technology, SkyMirr is able to build higher efficiency and higher gain solutions as compared to currently available antennas designed with older technology.

The TAMP101 antenna has been carefully designed to work equally well in both current 4G/LTE bands as well as newly authorized 5G Sub-6 bands. This allows for easy upgrade/migration as the world moves from 4G to 5G.

Cable length and connector types are customizable. Contact the SkyMirr sales office (sales@skymirr.com or +1.321.482.1811) for further support.

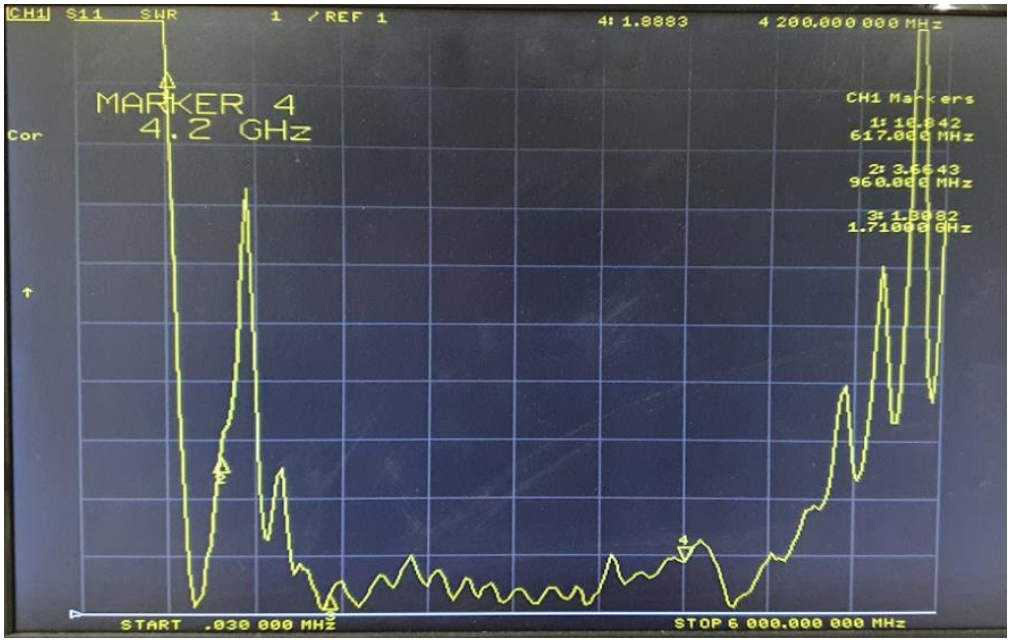
SPECIFICATIONS

Summary

Electrical		
VSWR		1.5:1 Max across entire band
Impedance		50Ω
Operating frequency bands	4G LTE/ 3G	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B25, B26, B28, B65, B66, B68
	5G Sub 6	n1, n2, n3, n5, n7, n28, n40, n41, n77, n78
Gain	4G LTE/ 3G	3.8 ~ 10 dB
	5G Sub 6	4 ~ 11 dB

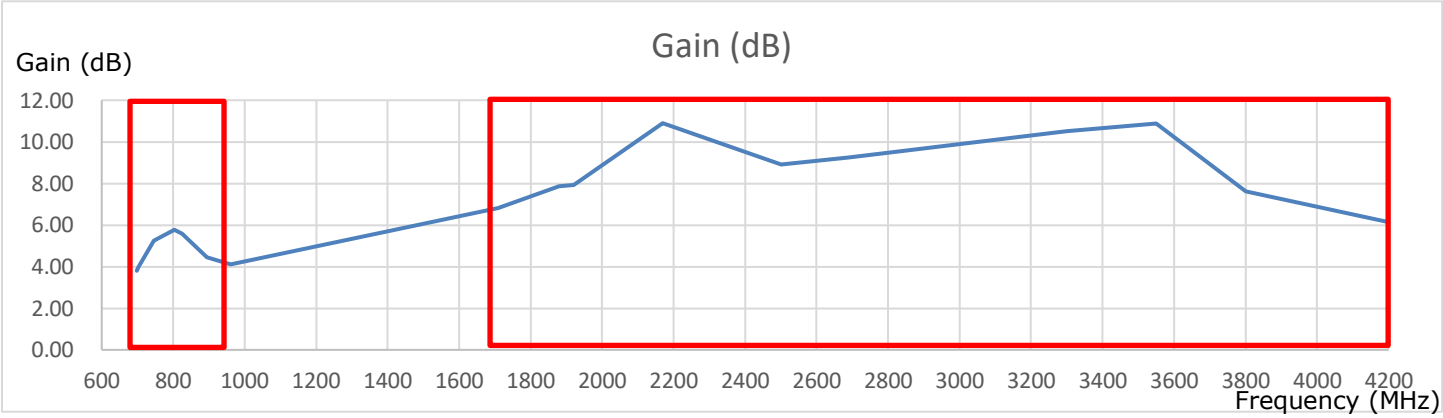
Mechanical	
Connector	N(female), standard, fully customizable upon order
Cable	30 cm N-Type standard, fully customizable upon order
Dimensions (not including Cable and Connector)	183 mm x 183 mm x 50 mm
Weight (including Cable and Connector)	250 grams

VSWR



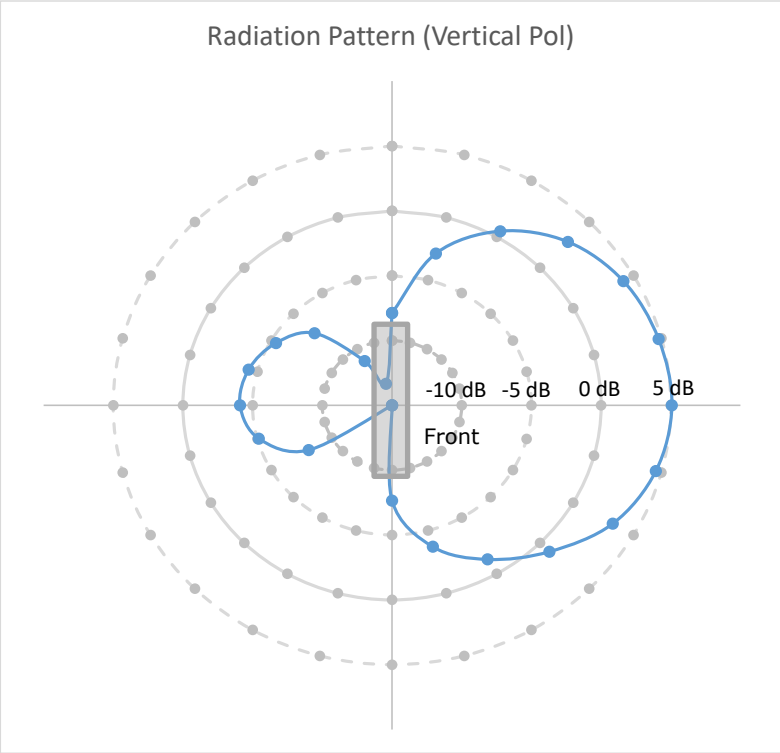
Gain and Efficiency

Service 4G LTE/3G (Blue). 5G Sub 6 (Red)	n28 (703~803) B14 B13 B17 (704~746) B28 (703 ~ 803) B12 (699 ~ 746) B68 (698 ~ 783)				B14 (814 ~ 894) B8 (880 ~ 960) B5(824~894)			n3 (1710~1880) B3 (1710 ~ B66 (1710 ~ 2200) B4 (1710 ~ 2155)	n1 (1920~2170) B65 (1920 ~ 2200) B1 (1920~2170) B25 (1850 ~ 1990) B2 (1850 ~ 1990)		n7 (2500~2690) n41(2496~2690 B7(1920~2200)			n77 (3300~4200) n78 (3300~3800)		
Frequency (MHz)	**698**	**703**	**746**	**803**	**824**	**894**	**960**	**1710**	**1880**	**1920**	**2170**	**2500**	**2690**	**3300**	**3550**	**3800**	**4200**
Efficiency (%)	**57.2**	**59.5**	**76.0**	**69.3**	**60.7**	**56.0**	**62.8**	**71.5**	**76.8**	**75.5**	**92.1**	**77.8**	**66.5**	**93.7**	**81.6**	**72.6**	**56.5**
Gain (dB)	**3.80**	**3.99**	**5.25**	**5.77**	**5.59**	**4.44**	**4.12**	**6.82**	**7.85**	**7.92**	**10.90**	**8.92**	**9.24**	**10.51**	**10.89**	**7.61**	**6.14**

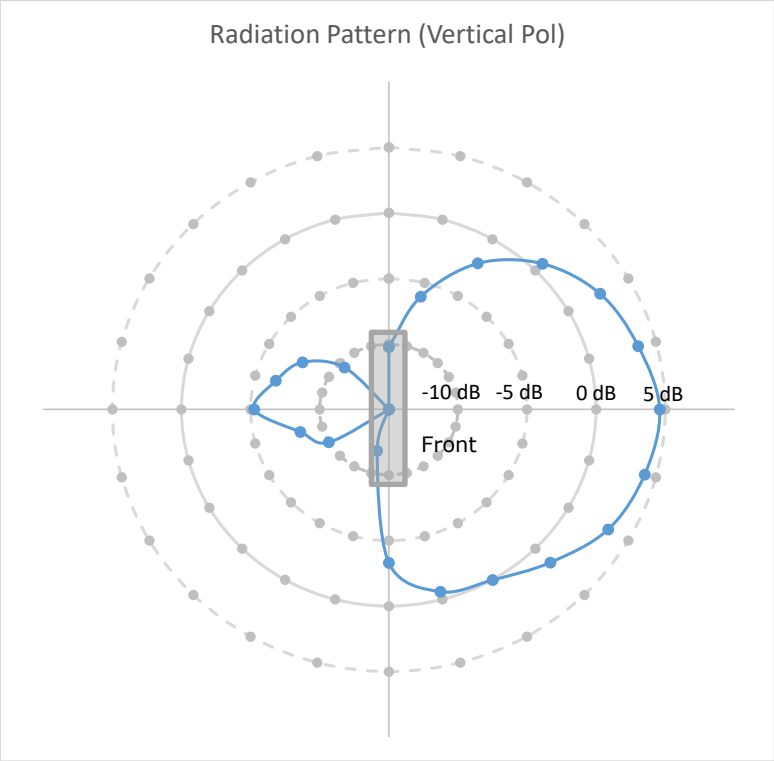


2D Radiation Pattern

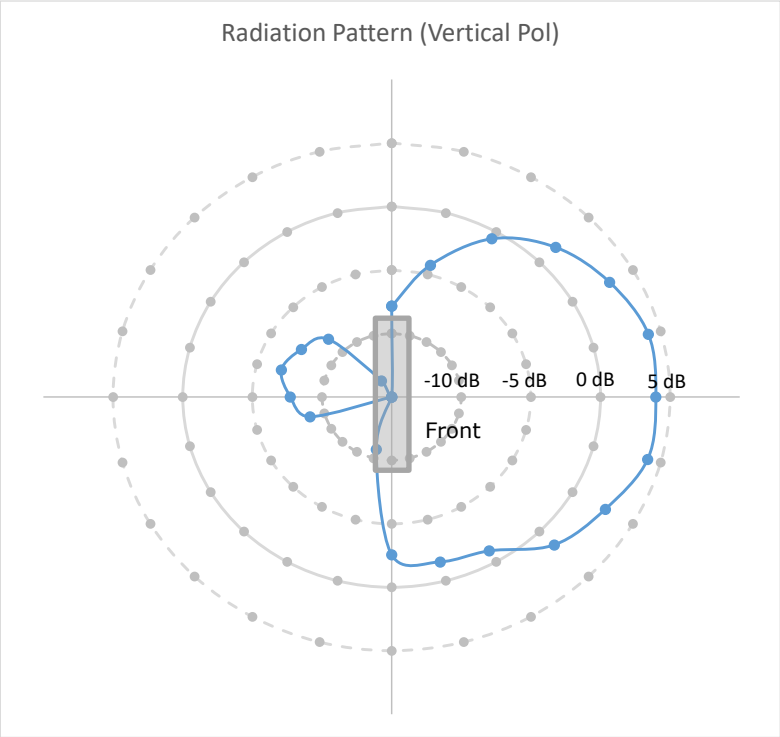
746 MHz



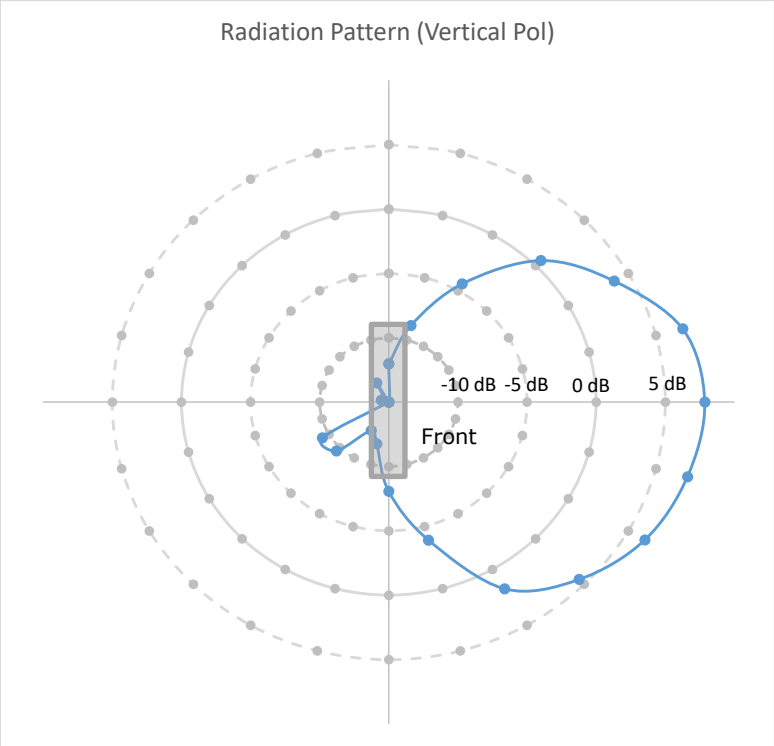
824 MHz



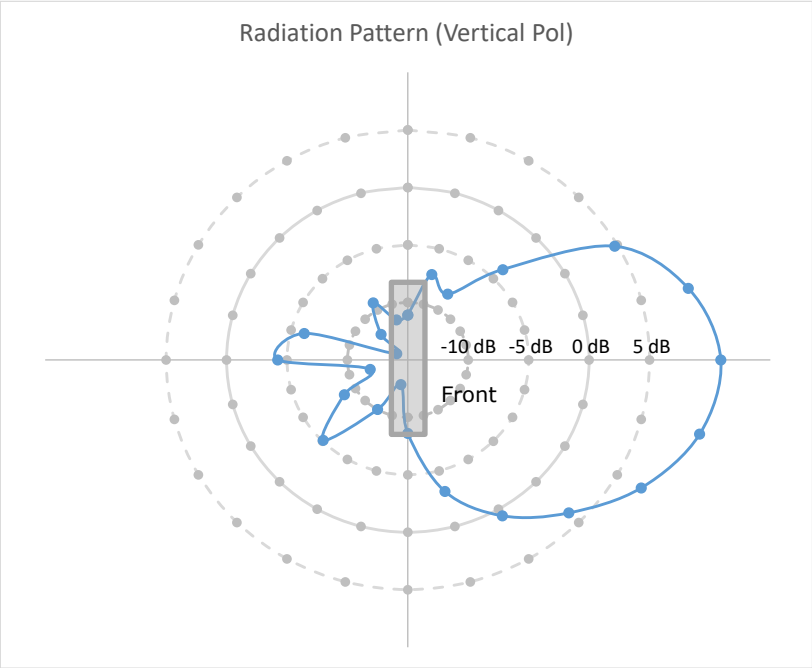
960 MHz



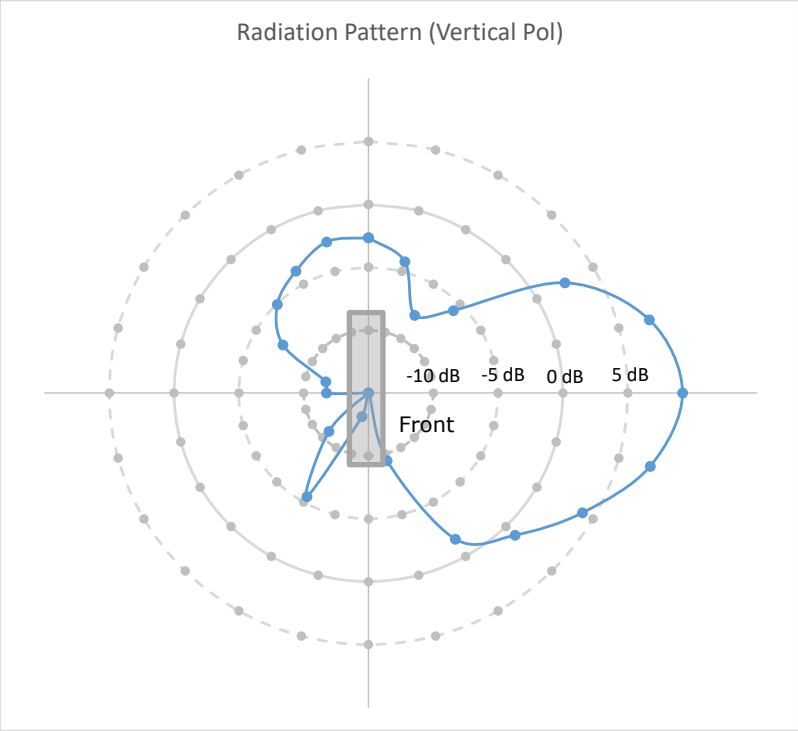
1880 MHz



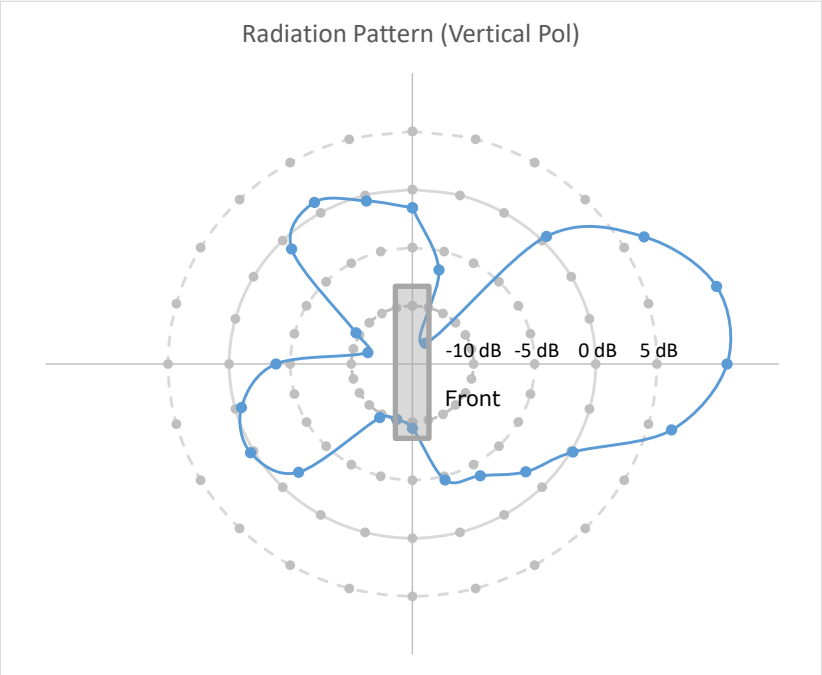
2170 MHz



2690 MHz



3550 MHz



4200 MHz