

#### antenna specification:

1. Manufacturer .: TAOGLAS

2. Address: 4851 Paramount Drive, San Diego, CA 92123

3. Manufacturer Part Number: PA.711.A

4. RF module/chip: Sierra Wireless WP7611-1\_1104619

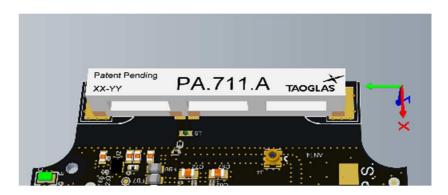
5. Antenna description

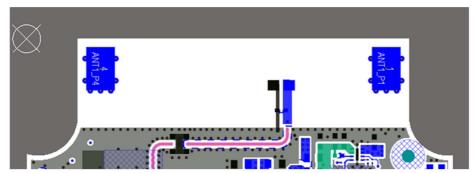
Antenna type	Cellular 4G/3G/2G SMD antenna		
Antenna manufacturer	TAOGLAS - PA.711.A		
Antenna datasheet	if exist		
Frequency range	698MHz ~ 960MHz and 1710MHz ~ 2690MHz.		
Modulation	Cellular 4G/3G/2G		
Antenna gain max (peak)	4.1dBi		
Cable loss	No Cable.		
Connector type	No Connector.		

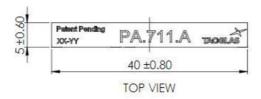
	Electrical				
Frequency (MHz)	698~960	1710 ~2170	2300 ~2400MHz	2490 ~2690MHz	
Peak Gain	1.0dBi	2.9dBi	4.1dBi	2.8dBi	
Average Gain	-2.8dB	-2.6dB	-2.0dB	-2.2dB	
Efficiency	52%	54%	62%	61%	

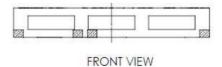


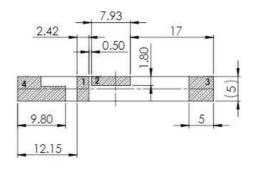
## 6. Antenna layout













- 7. Antenna radiation pattern Please refer to appendix A >>.
- 8. Antenna photo

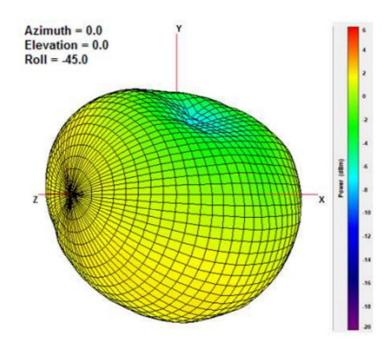


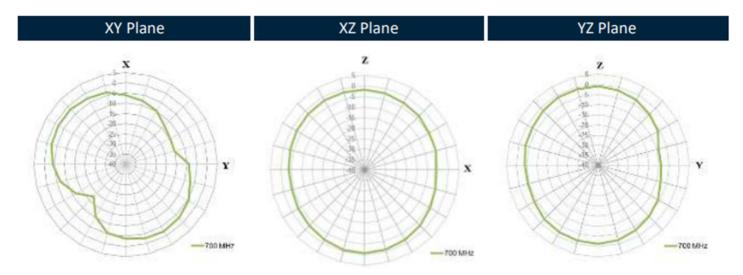
9. RF-auxiliaries - No auxiliary.



# **Appendix A - Radiation Pattern**

4.2 700MHz - 3D and 2D Radiation Patterns







\_\_\_\_ There for you.

