

Meteor

Part No: FW.92.RNT.M

Description:

Penta-band cellular 2G/3G GSM/CDMA/UMT: Flexible Whip Monopole Antenna 850/900/1800/1900/2100MHz

Features:

Robust Inner Steel Core RP-N-type Male Connector IP65 RoHS Compliant



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1. Introduction





The FW.92 is a flexible cellular whip antenna with IP65 housing and an RP-N-type male connector. It has a wide response and high peak gain. It is ideal for outdoor environments which require high gain on both lower and upper bands. It's unique characteristic is it has stable above 3dBi peak gain on all five common 2G/3G GSM/CDMA cellular bands used worldwide (when attached to a 30cm*30cm metal plate). The antenna radiates best attached to a metal plate but it can still perform without as evidenced by the table below.

This antenna delivers wider coverage areas and more reliable connections for professional customers in the automotive and industrial sectors. The whip is made up of a flexible inner steel core covered by TPU so extremely resistant to collisions and maintaining its original shape and RF performance.

Customized frequency and gain versions can be supplied.



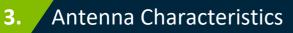
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Specifications

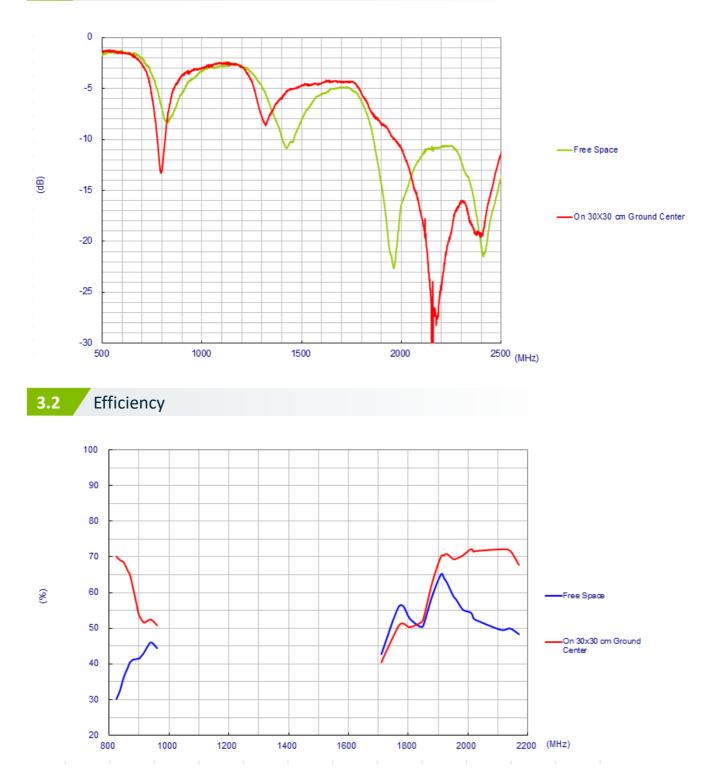
		CELLULAR			
Frequency (MHz)	824~896	880~960	1710~1880	1850~1990	1710~2170
		Peak Gain (dBi)			
Free Space	-0.2	-0.1	3.0	3.3	3.3
With Ground plane(30x30cm)	3.3	3.4	3.9	4.0	4.0
Average Gain (dBi)					
Free Space	-3.8	-3.4	-2.3	-1.9	-1.9
With Ground plane(30x30cm)	-1.2	-2.1	-2.0	-1.5	-1.4
		Efficiency			
Free Space	41%	46%	59%	65%	65%
With Ground plane(30x30cm)	70%	61%	63%	71%	72%
Impedance			50Ω		
Polarization			Linear		
Radiation Pattern			Omni		
Input Power			50 W		
Tested Power			10 W		
		Mechanical			
Dimensions			Height 274±5 mm		
Base Diameter			20 ± 0.1 mm		
Whip Diameter			4 ± 0.2 mm		
Casing			ABS		
Connector			RP-N-type Male		
		Environment	al		
Temperature Range			-40°C to 80°C		
Humidity		Nor	n-condensing 65°C 959	% RH	

2.

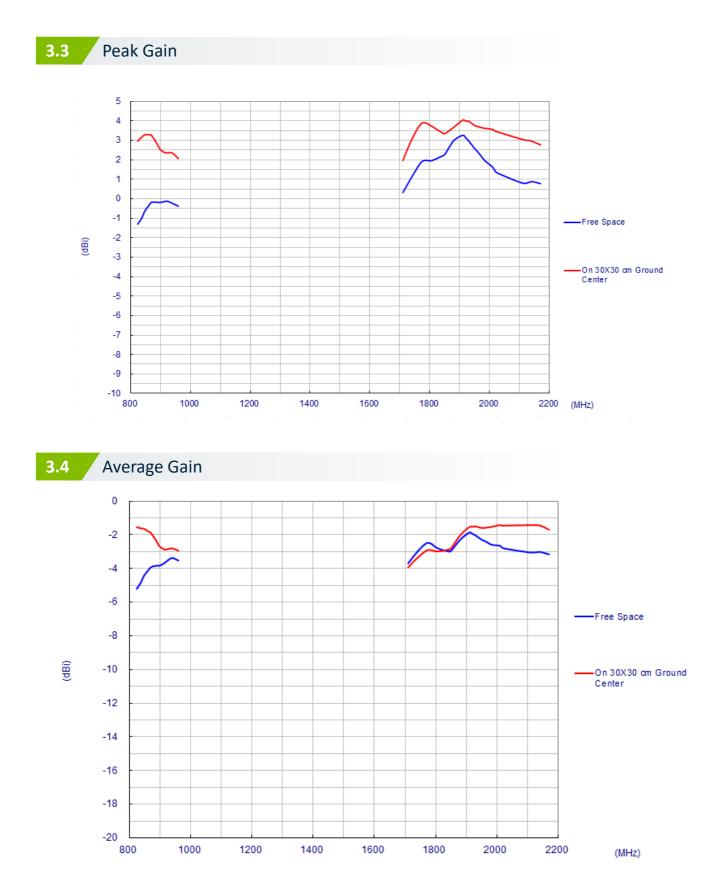








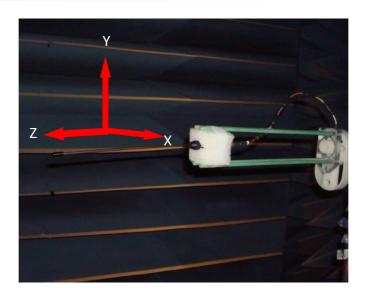


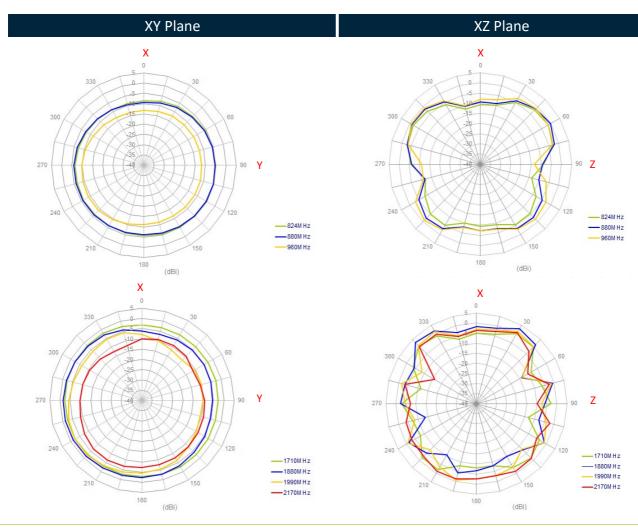




4.

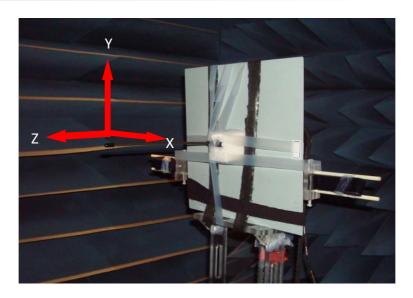
4.1 Antenna Free Space

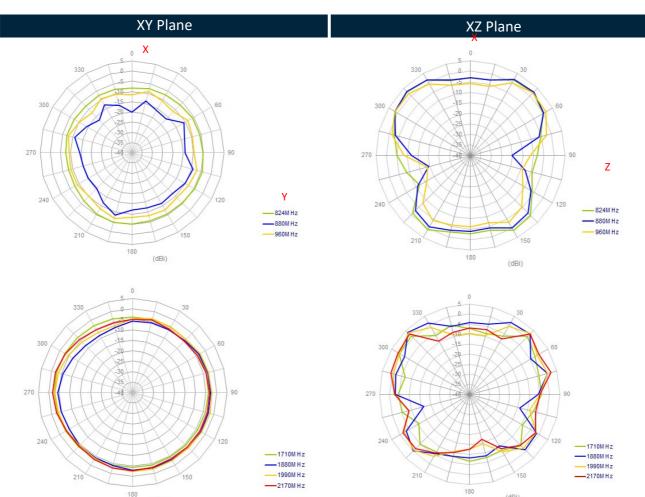






4.2 Antenna on Ground plane (30X30cm)



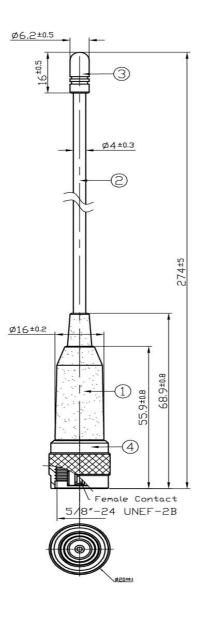


(dBi)

(dBi)



Mechanical Drawing (Units: mm)

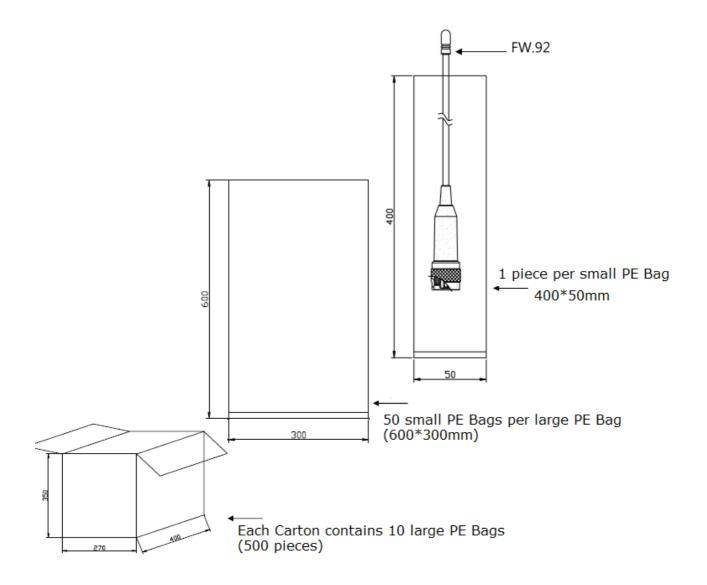


	Name	P/N	Material	Finish	QTY
1	Housing	000111K0600XXA	ABS	Black	1
0	Flexible Whip	001111K0000XXA	Steel+PE Jacket	Black	1
3	Сар	000711C0000XXA	ABS	Black	1
4	NTYPE(M)RP ST	211011K000002A	Brass	Black	1

5.



6. Packaging





Changelog for the d	atasheet
SPE-12-8-090 - FW.	92.RNT.M
Revision: C (Current	Version)
Date:	2025-03-24
Changes:	Updated max operation temperature to 80°
Changes Made by:	Conor McGrath

Previous Revisions

Revision: B	
Date:	2019-08-16
Changes:	Updated to new format
Changes Made by:	Dan Cantwell
Changes Made by:	Dan Cantwell

Revision: A (Origina	l First Release)
Date:	2012-07-17
Notes:	
Author:	SS



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