

# **SPECIFICATION**

#### **Penta-band Cellular Omni-Directional Antenna**

Part No.	:	OMB.8912. 03F21
Product Name	:	3 dBi Penta-band Cellular Indoor/Outdoor
		Omni-Directional Antenna
Feature	:	GSM850/ GSM900/ DCS/ PCS/ WCDMA I
		850/ 900/ 1800/ 1900/ 2100 MHz Suitable to use in robust outdoor environment
		RoHS compliant





## **1.Introduction**

The Penta-band cellular Barracuda Outdoor antenna is designed to a have long distance coverage. Omni-directional high gain across all bands ensures constant reception and transmission. The UV resistant coating with fiberglass housing makes this antenna suitable to be mounted in robust outdoor environment, pole-mounting and wall-mounting bracket is included. The antenna finds its usage in boosting cellular coverage in remote areas or difficult environments indoors and outdoors.



# 2. Specification

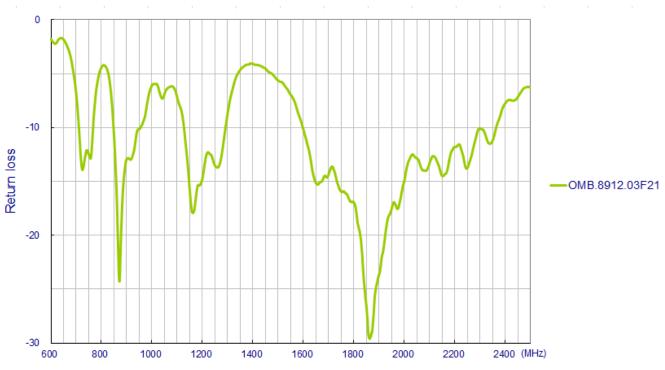
ELECTRICAL									
Standard	GSM	GSM	DCS	PCS	WCDMA I				
Band	850	900	1800	1900	2100				
Frequency (MHz)	824~894	880~960	1710~188 0	1850~199 0	1920~217 0				
Peak Gain (dBi)	1.55	2.13	4.47	4.49	4.89				
Average Gain (dBi)	1.18	1.78	3.87	4.24	4.08				
Efficiency (%)	63.4	75.7	81.2	88.8	87.3				
Antenna Type	Collinear								
Polarization	Vertical								
Impedance	50 ohms								
Max Input Power	50 watts								
VSWR	<2.0:1								
Radiation	Omni-Directional								
Vertical Bandwidth	65 Deg								
Horizontal Bandwidth	360 Deg								
Antenna Design	Dipole Array								
Internal Material	Copper								
Connector	N Type Female								
	N	1ECHANICAL							
Length			527 mm						
Base Diameter		7	0*55mm(Max	<)					
Antenna Weight(G.W)	350g								
Mounting Accessories(G.W)	70g								
Application	Indoor/Outdoor								
Radome Material	White Fiberglass								
Base Material	Aluminum								
Mount Style	Pole Mount/Wall Mount								
Mounting	Stainless Steel								
Wind Resistance	>150mph (>241km/h)								



ENVIRONMENTAL					
Storage Temperature	-40°C to +80°C				
Operating Temperature	-40°C to +60°C				
Operating Humidity	10%~80% non-condensing				
Storage Humidity	5%~80% non-condensing				

## **3.Antenna Characteristics**



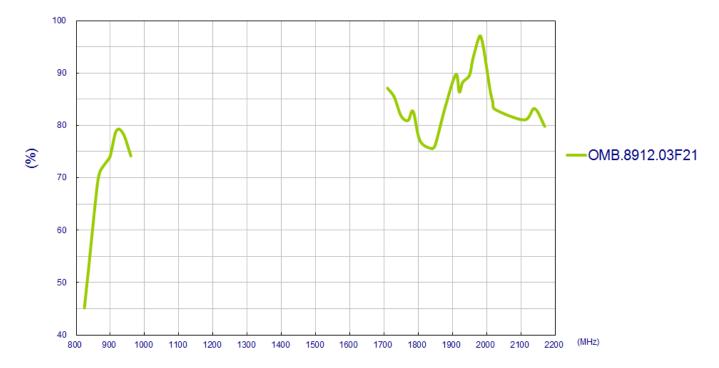




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#### 3.2 Maximum Gain

#### **3.3 Efficiency**

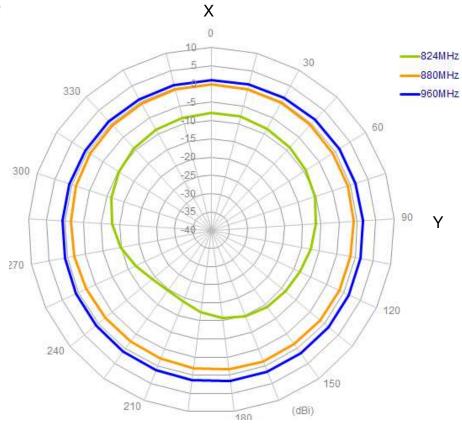




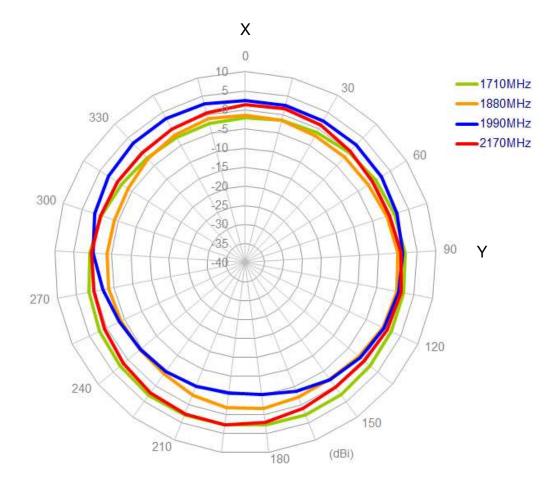
### **4.3D Radiation Property**



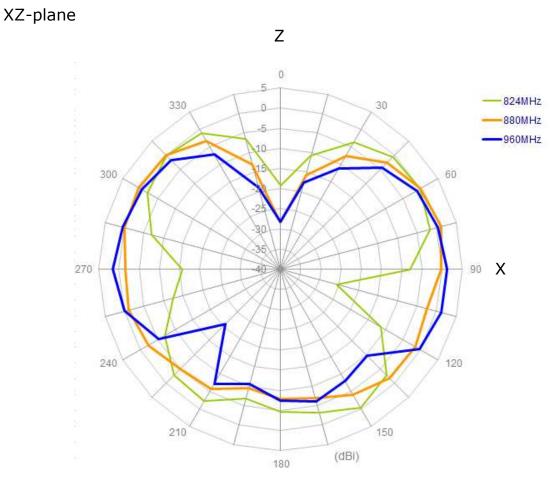
XY-plane

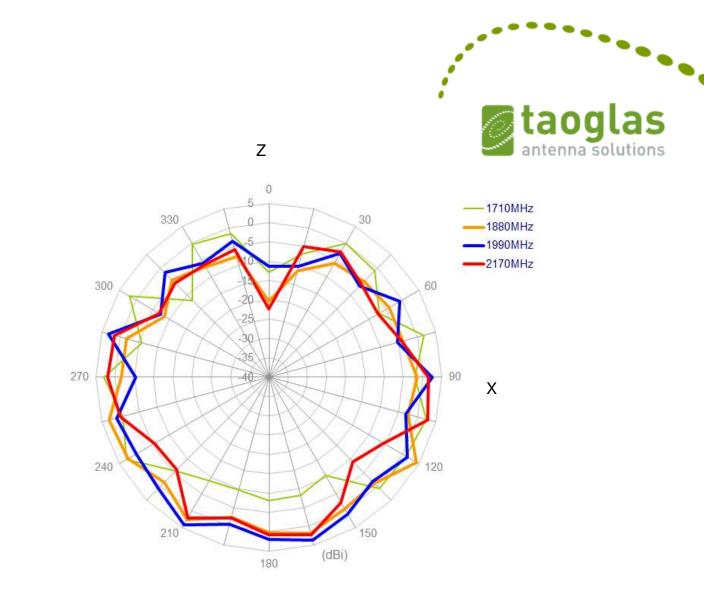




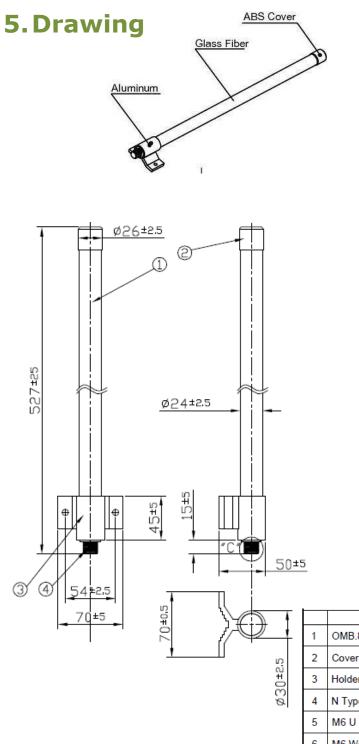




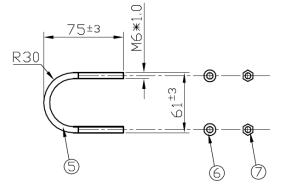




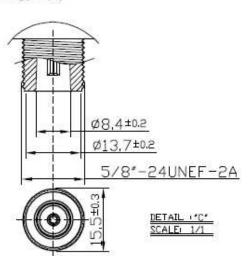




Bracket



N Type (F)

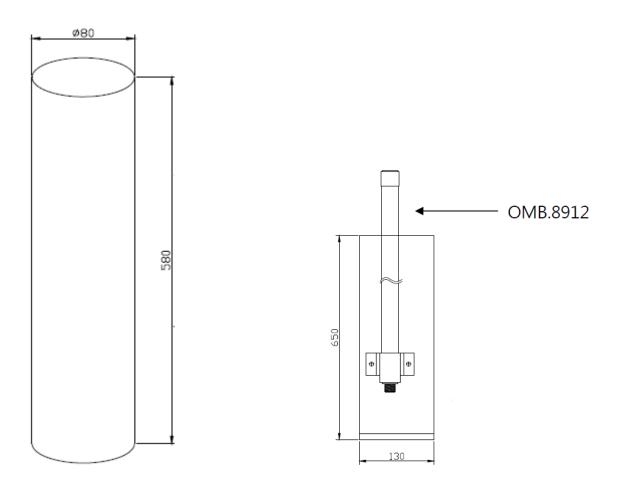


	Name	P/N	Material	Finish	QTY
1	OMB.8912 Antenna	001212C000021A	Glass Fiber	White	1
2	Cover	000111K000021A	ABS	Silver	1
3	Holder	000311K000021A	Aluminum	Silver	1
4	N Type(F)	201211K000021A	Brass	Ni Plated	1
5	M6 U Type Screw	000411K000021A	Stainless Steel	Silver	1
6	M6 Washer	000411K010021A	Stainless Steel	Silver	1
7	M6 Nut	000411K020021A	Stainless Steel	Silver	1



### 6. Packaging

Antennas are packed in carton tubes inside PE bags. Mounting components are packed in the separate PE bag inside the tube



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