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Part No: Description:

Features:

#### G24.A.305111

G24 Ultima Series – Super Low Profile
Penta Band Cellular Antenna Permanent mount
GSM/GPRS/CDMA/HSPA
Height 20mm(0.77") and diameter 55mm(2.16")
Heavy duty screw mount
UV and vandal resistant PC housing and thread
IP67 compliant
Standard is 3 meter low loss cable TGC-200 SMA(M)
Cables and Connectors Customizable
<b>√</b> RoHS

✓ RoHS
✓ ReacH
COMPLIANT

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G24 Ultima Series Cellular Antenna is an extremely low profile 2G/3G 800MHz to 2200MHz cellular antenna solution for professional telematics applications. Suitable for GSM/GPRS/CDMA applications worldwide, at only 20mm (0.77") in height it is the lowest profile antenna in the market, with a diameter of only 55 mm (2.16"). It works well when mounted on both metal and non-metal. In other words, it does not need a metal ground-plane to attach to, to radiate, something that competitor antennas all need. Taoglas recommend a minimum cable length of 70mm when used on a ground plane to achieve an efficiency of greater than 20%.

Durable UV PC housing, thread and nut is resistant to vandalism and direct attack.

The IP67 waterproof robust plastic body makes it extremely light, economical for shipping and minimum weight impact on vehicles. This also makes it ideal for use in humid environments such as water pits or marine applications as there are no metal parts to corrode. The closed cell foam with double-sided adhesive provides a permanent waterproof seal and can adjust to different curvatures, stopping water from leaking under the antenna into the mounting hole. Lowest loss PTFE cable is used for maximum gain and reduced noise entry through the cable.

The G24 is also available in white.



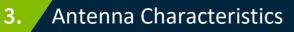
# Specifications

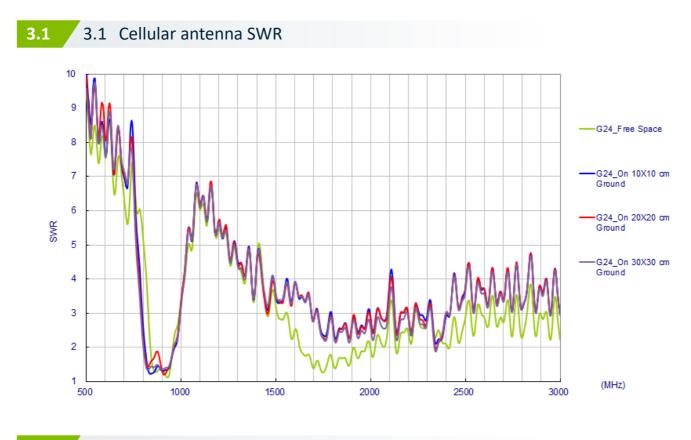
Cellular						
Frequency (MHz)	824~896	880~960	1710~1880	1850~1990	1920~2170	
		Peak Ga	in (dBi)			
Free space	2.0	1.8	3.9	3.9	3.9	
10*10cm ground plane	-0.6	0.7	-0.2	1.7	1.7	
20*20cm ground plane	1.8	1.8	3.1	3.1	3.1	
30*30cm ground plane	0.0	0.0	1.7	1.7	2.0	
		Average 0	Gain (dBi)			
Free space	-4.1	-4.0	-2.7	-2.8	-2.7	
10*10cm ground plane	-4.8	-3.3	-4.9	-4.0	-4.0	
20*20cm ground plane	-4.3	-4.3	-4.2	-4.0	-4.0	
30*30cm ground plane	-6.3	-6.6	-4.4	-4.4	-4.4	
Efficiency (%)						
Free space	39.1	39.3	53.4	52.5	53.4	
10*10cm ground plane	33.8	46.2	32.1	40.0	40.0	
20*20cm ground plane	36.9	36.9	37.8	39.3	39.3	
30*30cm ground plane	23.4	23.4	36.0	36.0	36.0	
Impedance			50Ω			
Polarization	Linear					
Radiation Pattern	Omni					
Input Power			10 W			
		Mecha	anical			
Dimensions		Ø55±2mm	, Height 30±2 mm, Pro	file 19.6mm		
Cable type TGC-200						
Connector	SMA Male Straight					
Cable length	3000mm					
Casing			РС			



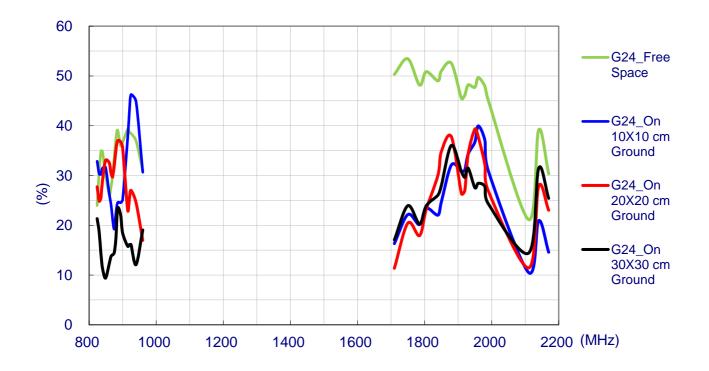
Environmental				
Temperature Range	-40°C to 85°C			
Waterproof	IP-67			
Thermal Shock	100 cycles -40°C to +80°C			
Shock (drop test)	1m drop on concrete 6 axes			
Humidity	Non-condensing 65°C 95% RH			
Weight	180g			
Recommended Torgue for	3.92N⋅m			
Max Torque for Mounting	4.9N⋅m			



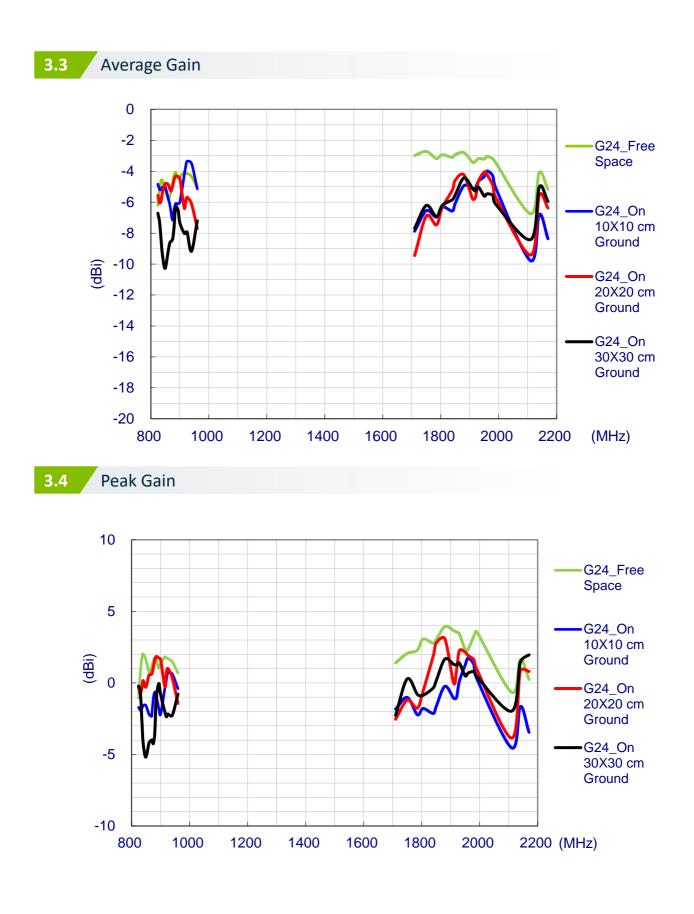




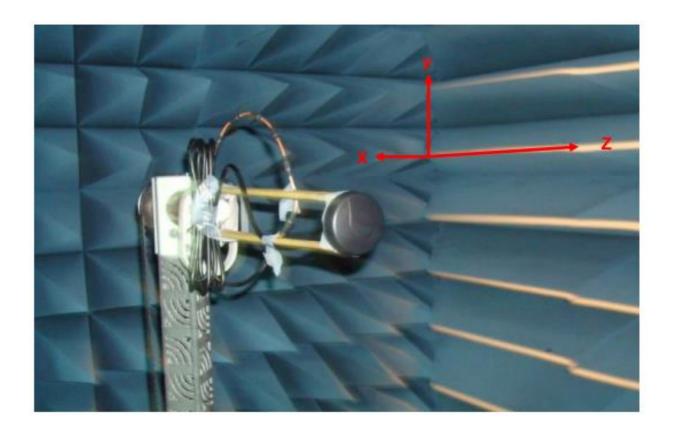
#### 3.2 Efficiency





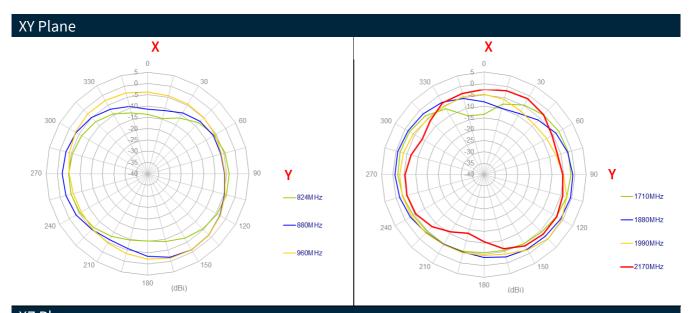


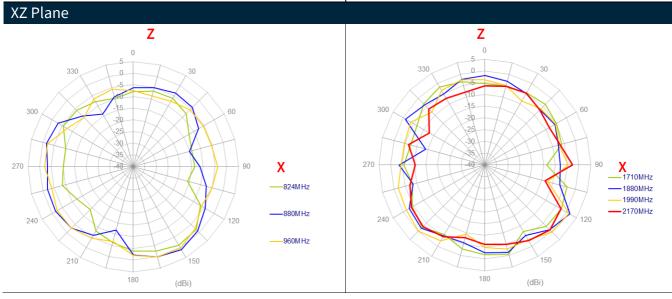




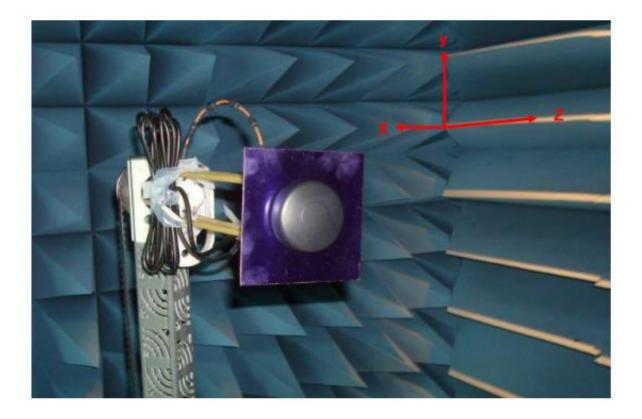
Free space





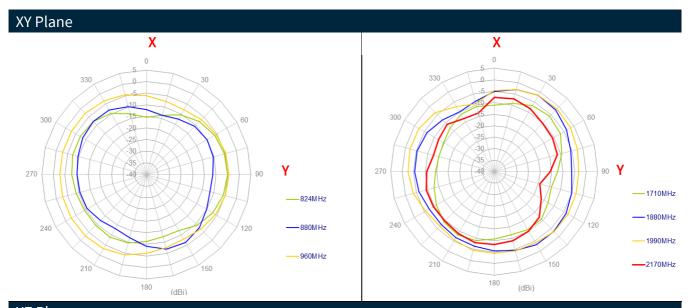


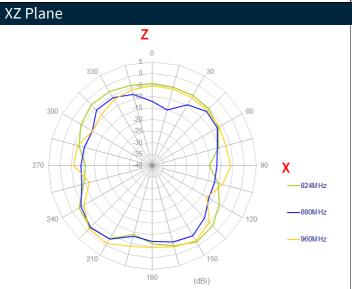


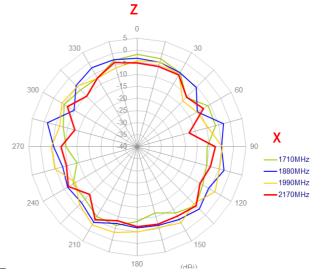


10x10m Ground Plane

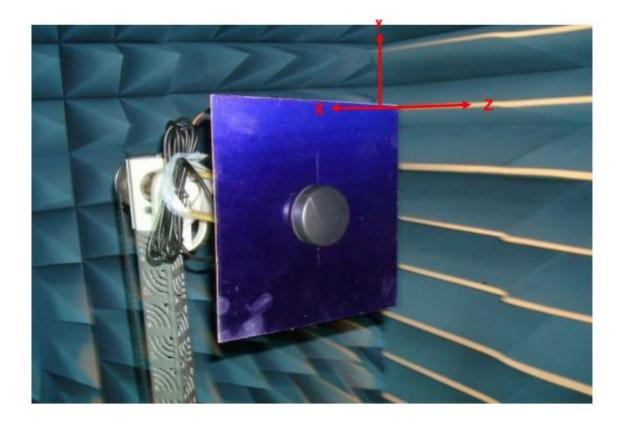






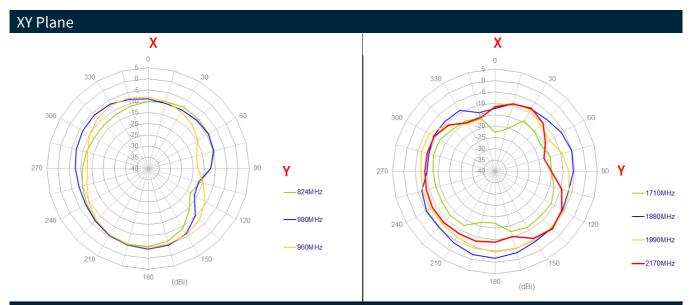




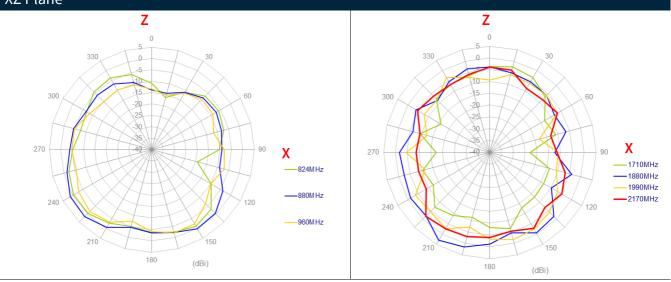


20x20cm Ground Plane

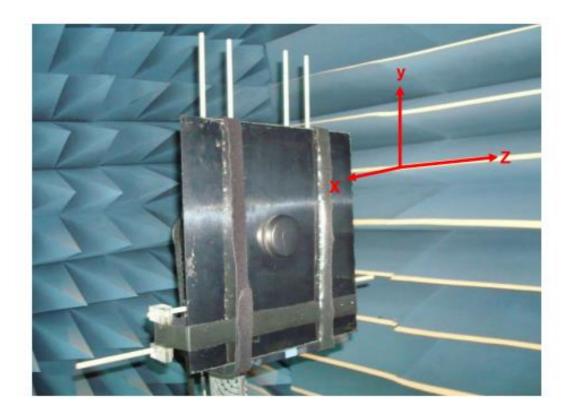






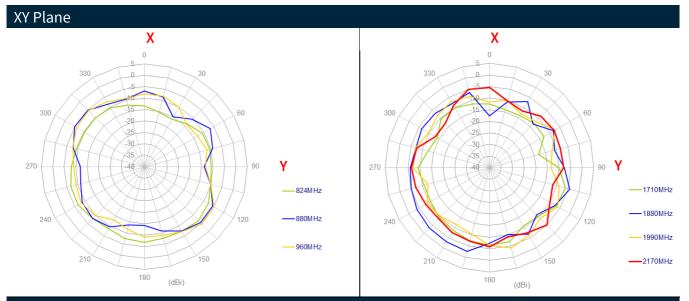




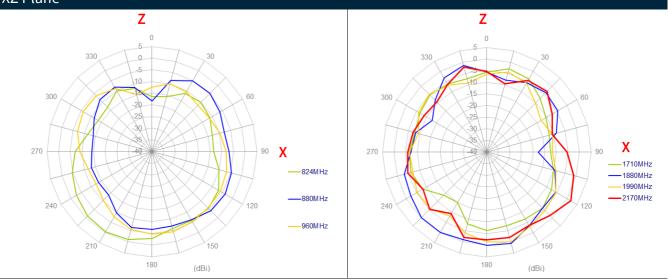


30x30cm Ground Plane



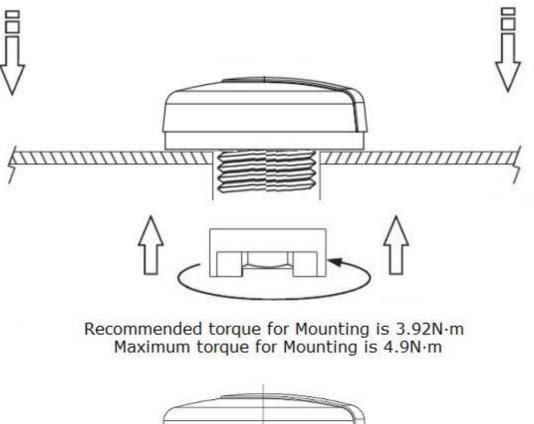


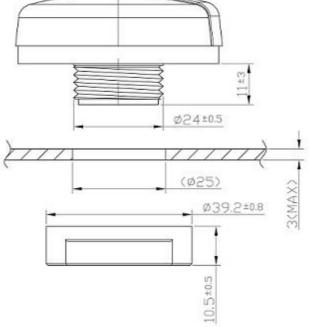






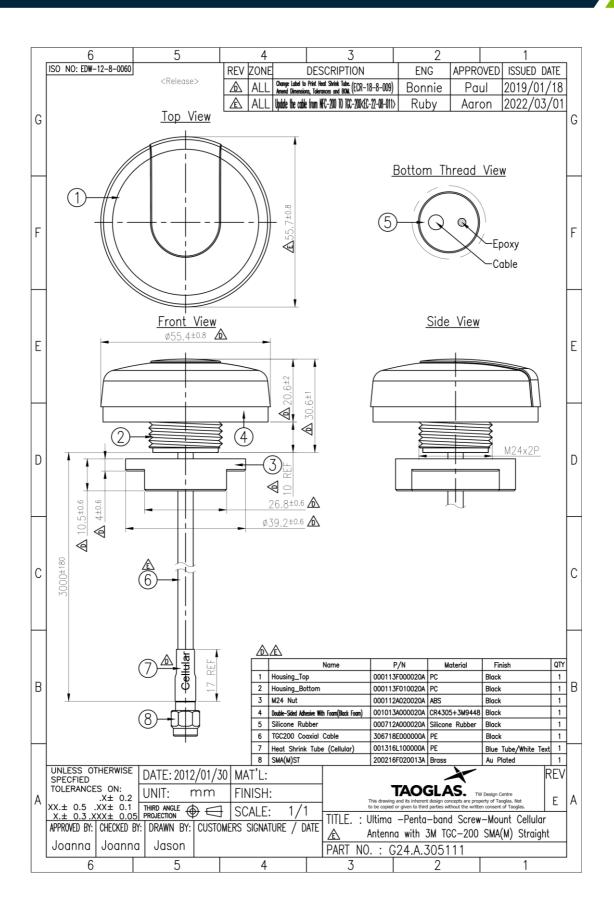
## Installation







### Mechanical Drawing (Units: mm)





# Packaging

