



Specification

# SPECIFICATION

Model No. : IAA.01

Part No. : **IAA.01.121111**

Product Name : External Magnetic Mount Iridium Antenna

Feature : 1616MHz ~1626.5MHz  
Custom cables and connectors available  
RoHS ✓



Version	Date	Page	Revision Description	Prepared	Approved
A	Feb 15 <sup>th</sup> 2010	All	New product	TW Product Centre	Ronan Quinlan



## I Introduction

The IAA.01 is a high performance magnetic mount antenna which is designed specific to communicate efficiently with the Iridium™ Satellite Communication system.

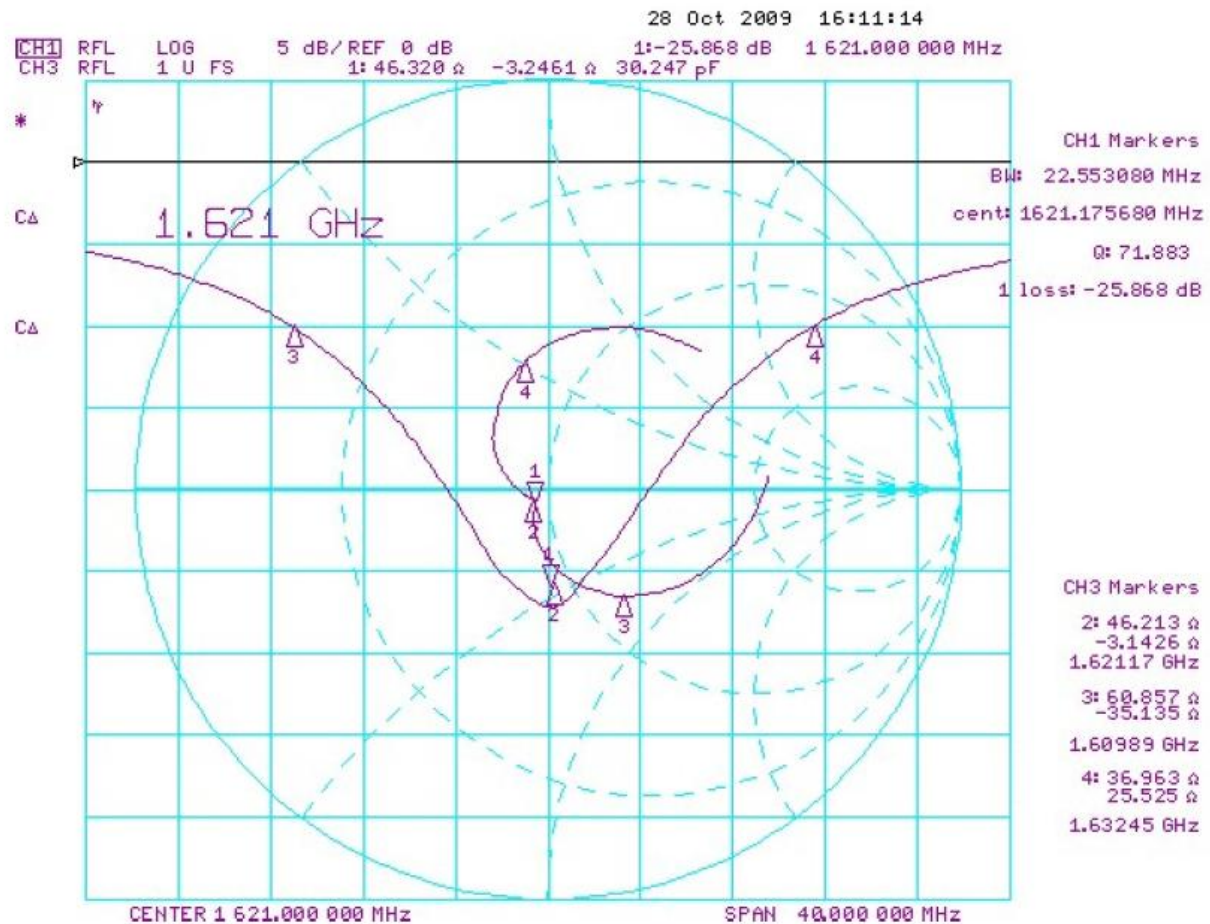
The IAA.01 utilises the Taoglas expertise in ceramics by incorporating a ceramic patch tuned specifically for the antenna environment, giving greater stability. The antenna housing is strong, corrosive proof and waterproof to IP67. The magnetic mount allows for easy installation and removal between vehicles or assets, it is easily converted to an adhesive type for greater flexibility.

## II Specification

Parameter	Specification
Frequency Range	1616Mhz~1626.5Mhz
Centre Frequency	1621.5MHz $\pm$ 5.25MHz
Bandwidth	15MHz
Impedance	50 Ohms
Polarization	RHCP
VSWR	1.5 Max (at centre frequency)
Connector	SMA(M)plug
Cable	RG-174
Termination	Ag (Environmentally-Friendly PB Free)
Operation Temperature	-40°C to + 85°C
Storage Temperature	-40°C to + 85°C
Relative Humidity	40% to 95%
Dimensions	40.5*38*12.3mm



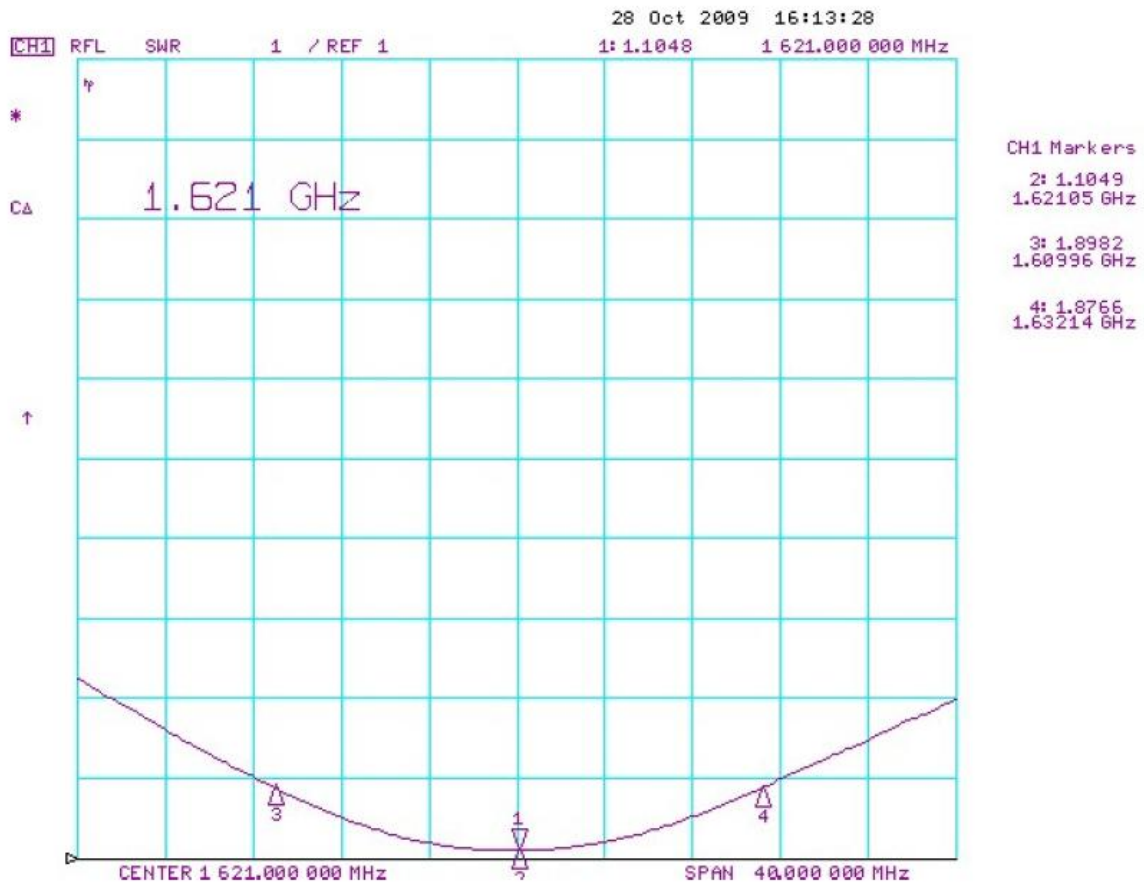
### III Performance Measurement and Results





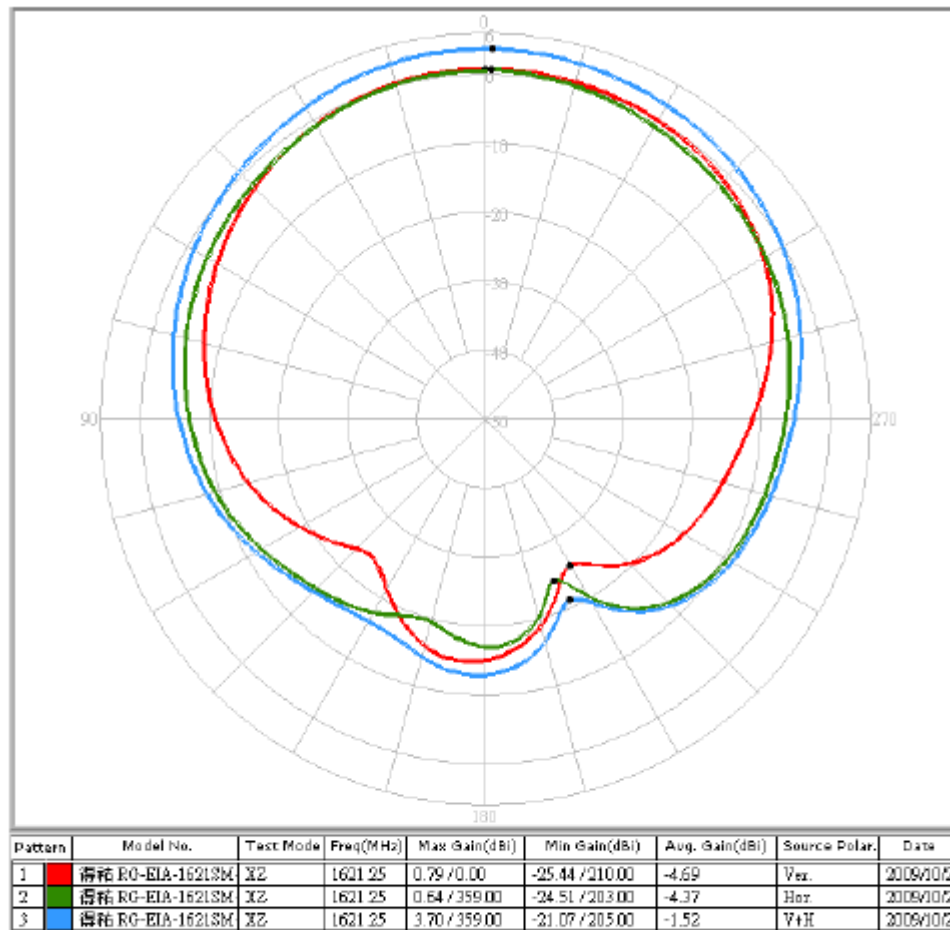
## Specification

## IV VSWR





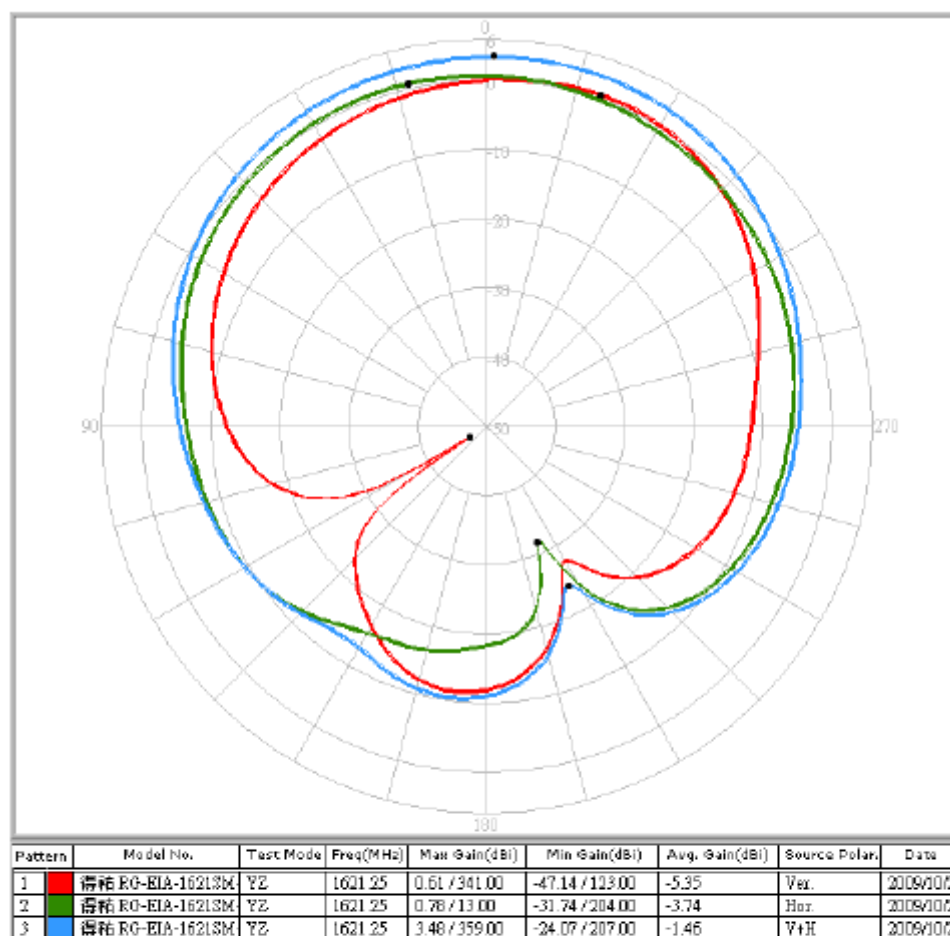
## V Antenna Gain Chart



**XZ-Plane**



## Specification

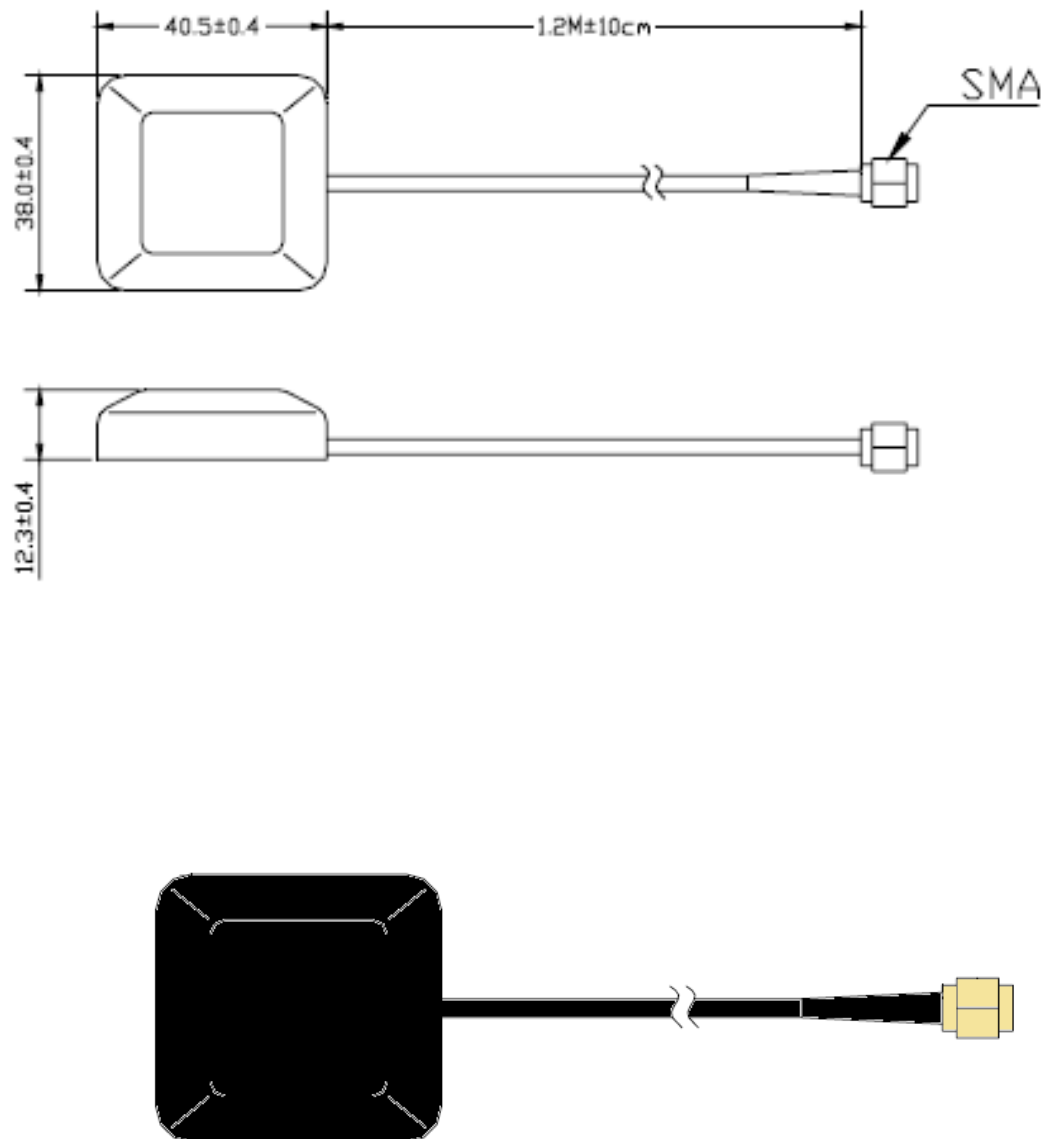


## YZ-Plane



Specification

## VI Drawing





## VII Packing Details

100 Units / Carton

