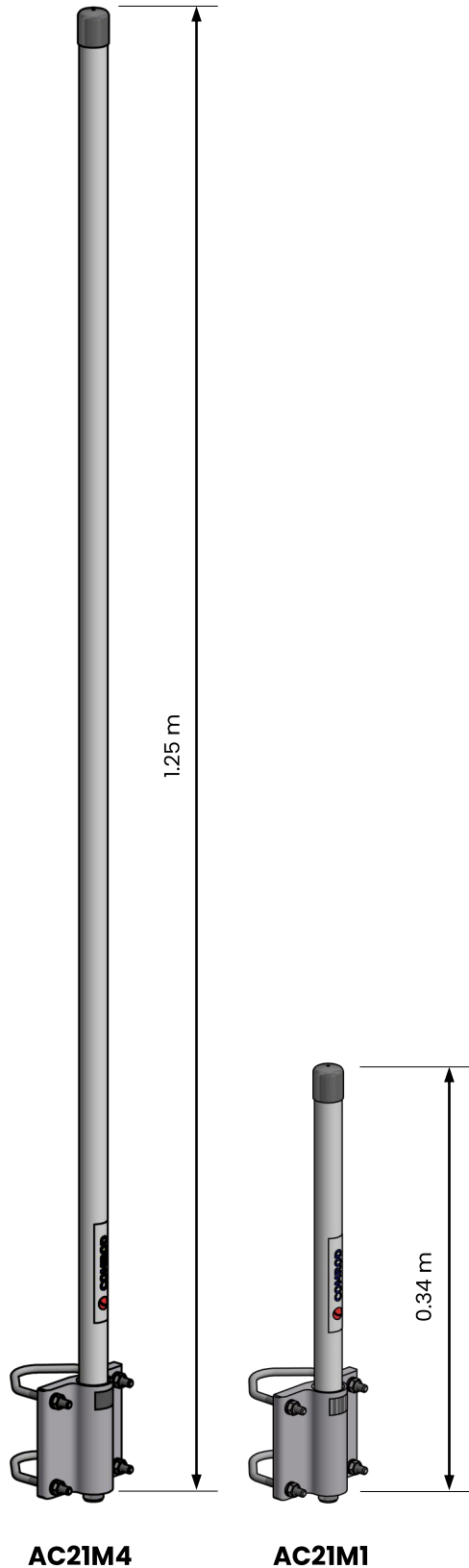


## AC21 Series

Cellular/WLAN, 1 dBi, one piece whip, dipole, end feed,  
806–960 MHz, 1710–2690 MHz

### Commercial and Marine Antennas



AC21M4

AC21M1

### Application

The AC21 is a broadband omnidirectional dipole antenna for cellular services, covering systems such as 3G, 4G and wireless LAN. The antenna is available in two lengths, 0.3 m and 1.25 m. Three mounting options are available, mast/bulkhead mount, P bayonet thread mount and BI thread mount. It is a high quality antenna with a durable construction and a beautiful finish for installation on all kind of vessels.

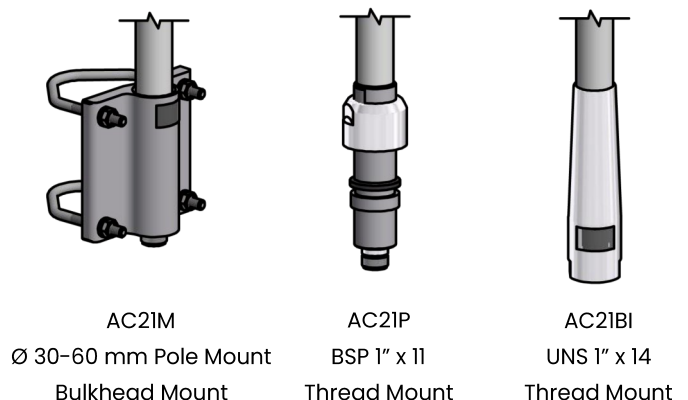
### Electrical Specifications

<b>Frequency Range</b>	806–960 MHz 1710–2690 MHz
<b>VSWR</b>	See diagram, overleaf
<b>Nominal Impedance</b>	50 $\Omega$
<b>Power Rating</b>	20 W
<b>Gain</b>	See diagram, overleaf
<b>Polarisation</b>	Vertical
<b>Connector</b>	N female

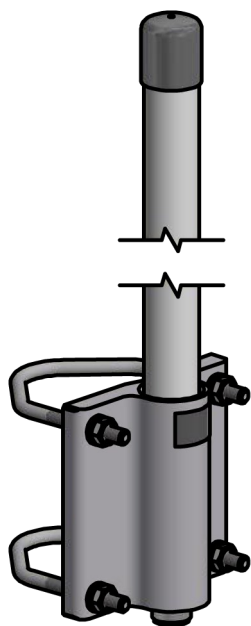
### Mechanical Specifications

<b>Design</b>	Dipole with a coaxial sleeve to suppress cable radiation. Radiating elements completely enclosed in polyurethane foam within a fibreglass tube.	
<b>Height</b>	AC21M1: 0.34 m	AC21M4: 1.2 m
<b>Weight</b>	AC21M1: 0.5 kg	AC21M4: 0.9 kg
<b>Wind Rating</b>	55 m/s = 201 kph	
<b>Finish</b>	Polyurethane lacquer, white	
<b>Temperature Range</b>	- 40°C to + 50°C	

### Mounting Options

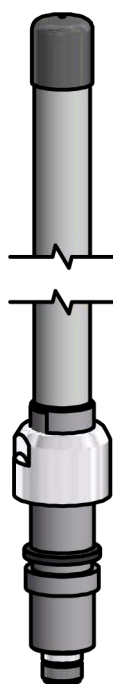


## Antenna Mounting Configurations



**AC21M**

Ø 30-60 mm Pole Mount  
Bulkhead Mount



**AC21P**

BSP 1" x 11  
Bayonet Thread Mount

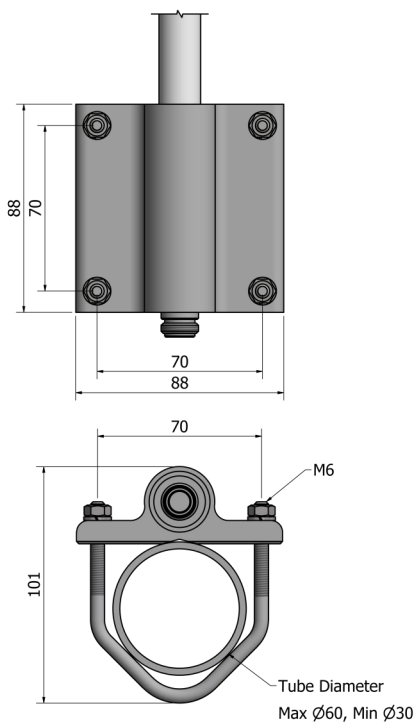


**AC21BI**

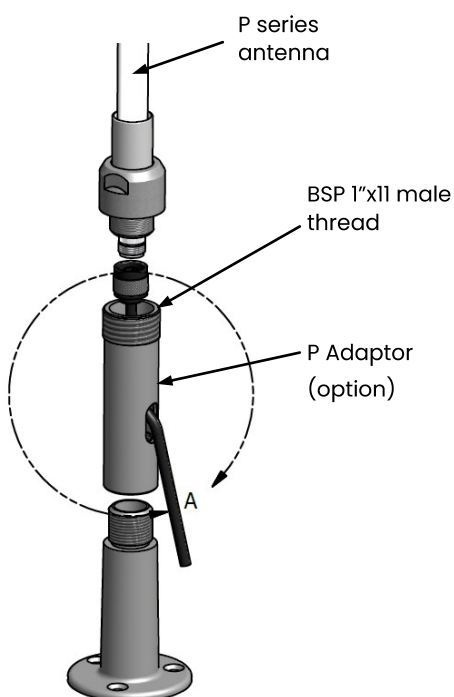
UNS 1" x 14  
Thread Mount

## Mounting Accessories

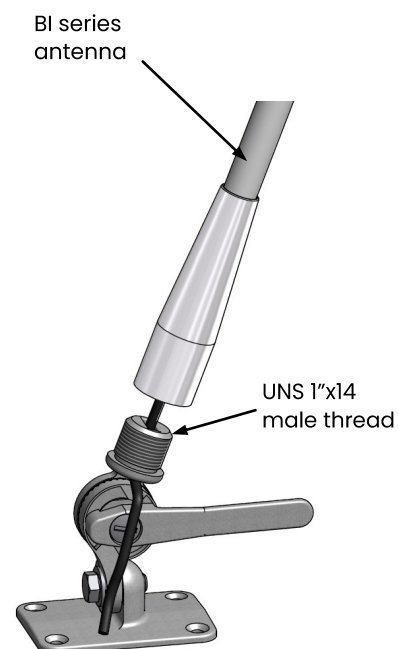
Comrod has a range of antenna mounting brackets and adaptors for P series and BI series antennas.



Mast mount bracket  
(standard on AV21M)

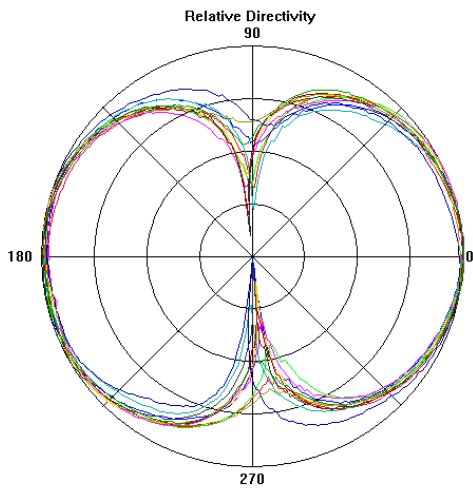


Straight mount bracket  
(option)



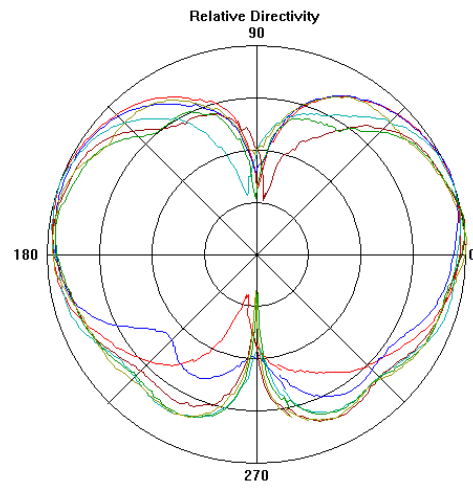
4-Way Bracket  
(option)

## Typical Radiation Diagram, Elevation



880-960 MHz

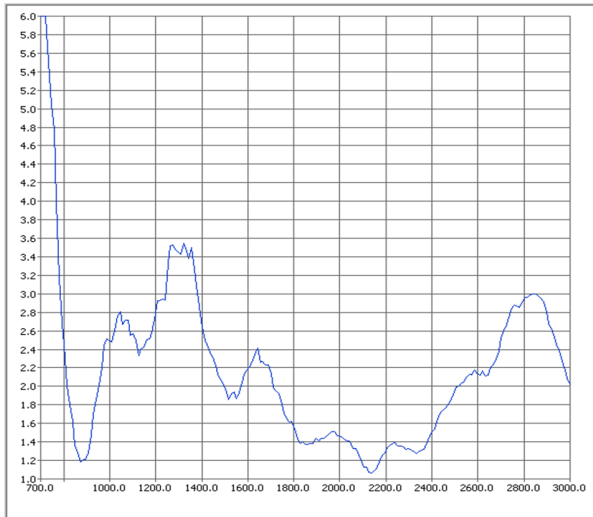
Draw Curve:  
 880.00 MHz v  
 888.00 MHz v  
 896.00 MHz v  
 904.00 MHz v  
 912.00 MHz v  
 920.00 MHz v  
 928.00 MHz v  
 936.00 MHz v  
 944.00 MHz v  
 952.00 MHz v  
 960.00 MHz v



1700-2500 MHz

Draw Curve:  
 1700.00 MHz v  
 1780.00 MHz v  
 1860.00 MHz v  
 1940.00 MHz v  
 2020.00 MHz v  
 2100.00 MHz v  
 2180.00 MHz v  
 2260.00 MHz v  
 2340.00 MHz v  
 2420.00 MHz v  
 2500.00 MHz v

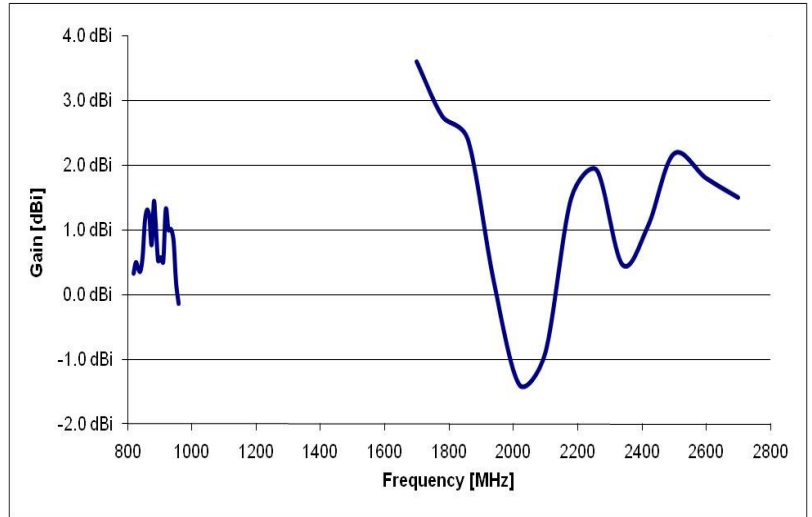
## Typical VSWR Curve



VSWR < 2:1 - 820-940 and 1790-2500 MHz

VSWR < 2.5:1 - 800-1010 and 1420-2700 MHz

## Gain Curve versus Frequency



## Communication Systems Covered

3G	824-960 / 1710-2170 MHz
4G	824-960 / 1710-2690 MHz
TDMA, CDMA	824-897 / 1850-1990 MHz
GSM 900 / 1800	860-960 / 1710-1990 MHz
UMTS ,WCDMA, PCS-1900	1850-2170 MHz
EDGE	860-960 / 1710-1990 MHz
DECT	1880-1900 MHz
WLAN 802.11b-h	2.4-2.5 GHz
ZigBee	868-928 MHz / 2.4-2.48 GHz
SMR iDEN	806-869 MHz
Bluetooth	2.4-2.48 GHz

September 2018

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All specifications are subject to change without notice  
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



[sales@eylex.com.au](mailto:sales@eylex.com.au)  
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