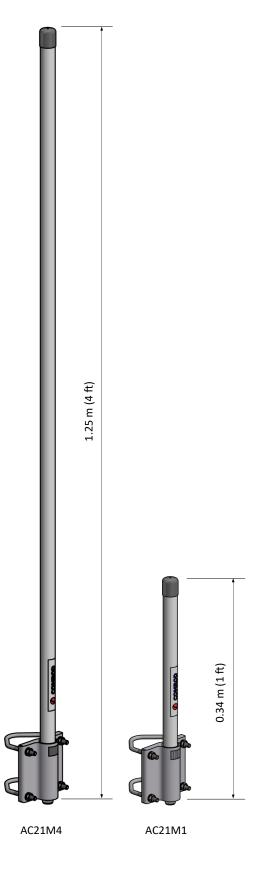


AC21 Antenna Series

Multi-band Cellular and WLAN Antenna



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, 0.3m and 1.25m. 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

Frequency range	806-960 MHz 1710-2690 MHz	
VSWR	See diagram, overleaf	
Nominal impedance	50 ohm	
Power rating	20 W	
Gain	See diagram, overleaf	
Polarization	Vertical	
Connector	N female	

Mechanical specifications

Design	Dipole with a coaxial sleeve to suppress cable radiation. Radiating elements completely enclosed in polyurethane foam within a fiberglass tube.	
Height	AC21M1: 0.34 m AC21M4: 1.2 m	
Weight	AC21M1: 0.5 kg AC21M4: 0.9 kg	
Wind rating	55 m/s = 125 mph	
Finish	Polyurethane lacquer, white	
Temperature range	-40°C, +50°C;+ -28 °F, +122°F	

Mounting Options



AC21M Ø30-60mm Pole Mount Bulkhead Mount

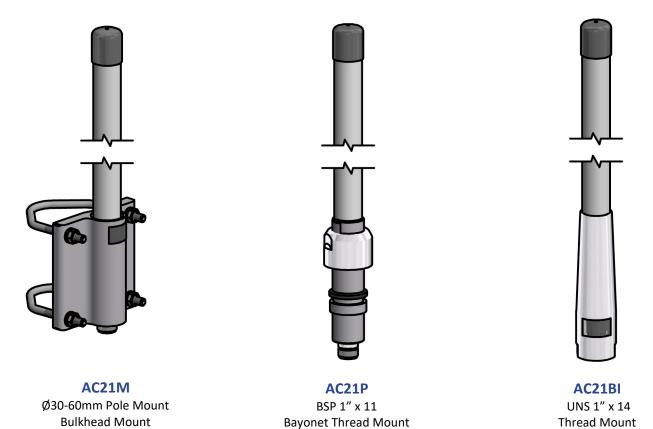


AC21P BSP 1" x 11 Thread Mount



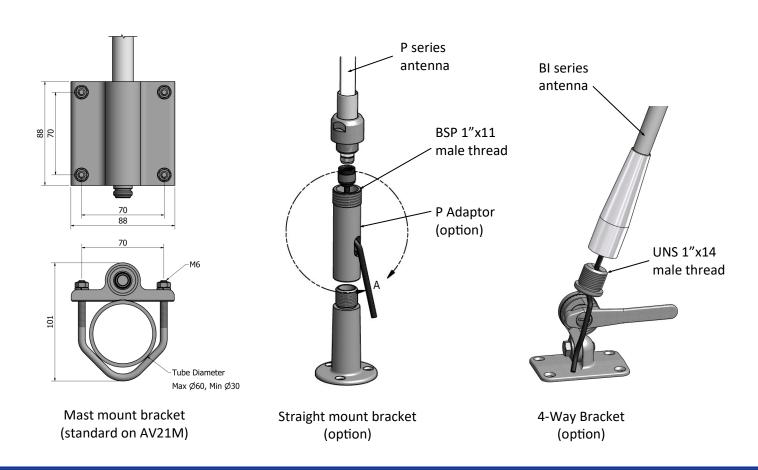
AC21BI UNS 1" x 14 Thread Mount

Antenna Mounting Configurations

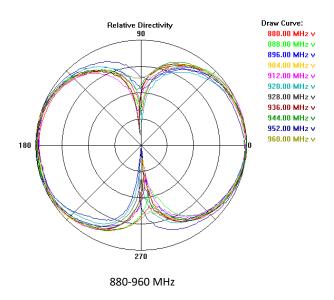


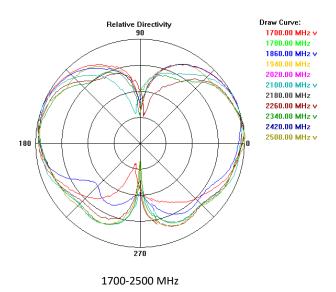
Mounting Accessories

Comrod has a range of antenna mounting brackets and adaptors for P series and BI series antennas. Please visit Comrod website www.comrod.com for more details or email sales@comrod.com



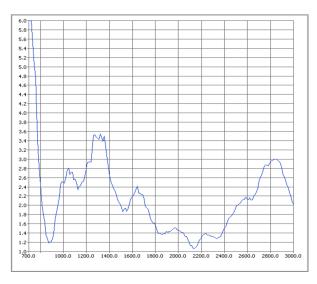
Typical radiation diagram, Elevation

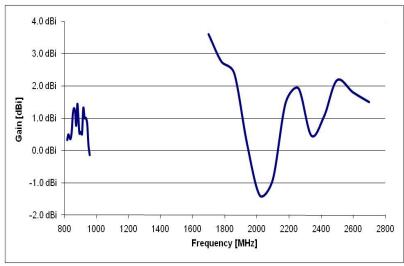




Typical VSWR curve

Gain curve versus frequency





VSWR < 2:1 - 820-940 and 1790-2500 MHz VSWR <2.5:1 - 800-1010 and 1420-2700 MHz

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

www.comrod.com Page 3