

C-Nav289 Antenna

GNSS Antenna



FEATURES

Tracks all GNSS constellations, C-Nav[®] corrections, and SBAS

INMARSAT and IRIDIUM rejection filters

All-polymer housing, non-corrosive design

C-Nav289 Antenna

Specifications

Polarization	Right hand circular (RHC)
Axial rotation	3 dB maximum @ boresight
Radiation coverage	+5.0 dBic 0° = 0°
	-2.0 dBic 0° < θ < 75°
	-3.0 dBic 75° < θ < 80°
	-4.0 dBic 80° < θ < 85°
	-5.0 dBic Horizon
Passbands	L-Band/GPS L1 /GLONASS G1/Galileo E1/Beidou B1:1,525 - 1,610 MHz GPS L2/GLONASS G2/Galileo E5a, E5b/ Beidou B2: 1,160-1,252 MHz
Out of band Rejection	> 90 dB [INMARSAT uplink] > 65 dB [IRIDIUM uplink]
Antenna Phase Center	L1 = 2.35 in / 59.7mm L2 = 2.72 in / 69.1mm
Low-noise amplifier (LNA) / filter combined gain	39 dB ($\pm$ 2 dB)
Total noise figure (NF)	2.6 dB (max)
Voltage standing wave ratio (VSWR)	$\leq$ 2:1
Impedance	50 ohms

Power requirements

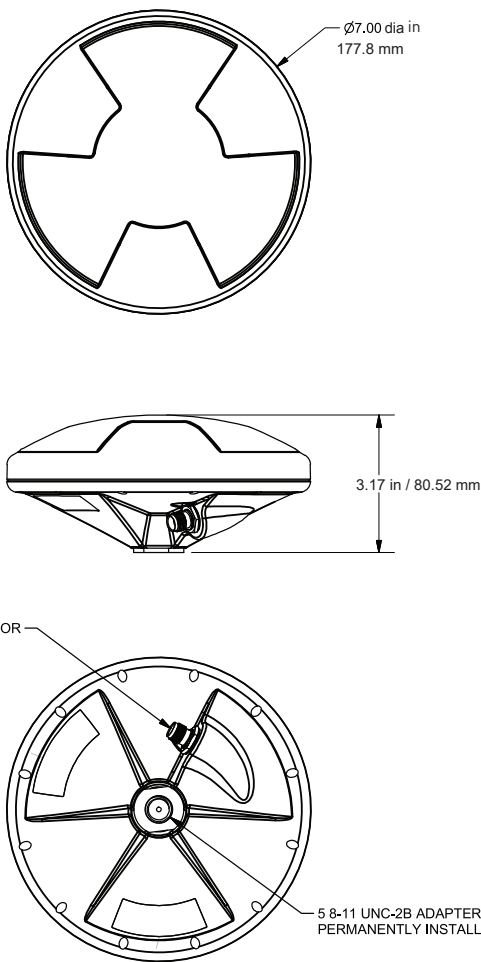
Input voltage	+4.2 V to +15 VDC
Power consumption	65 mA [max]

Environmental

Operating temperature	-40° F to 158° F / -40° C to +70° C
Storage temperature	-67° F to 185° F / -55° C to +85° C
Ingress protection rating	IP 67

Mechanical

Enclosure construction	Weather-resistant polymer housing
Cable connector	TNC female
Dimensions	7.00 in x 3.17 in / 177.8 mm x 80.52 mm
Weight	1 lb / 0.45 kg
Mounting	5/8 in - 11 UNC-2B thread mount



■ For more information: oceaneering.com/cnav