DT-GPS-ANT-01

KYLAND

KEY FEATURES

- GPS & GLONASS
- Extended temperature range (-40°C / +90°C)
- Weatherproof housing
- Filtering for RF Jamming environments
- Available in 3.3V (TNC) or 5V (TNC or F)
- RoHS-II Compliant

Multi-Constellation

DT-GPS-ANT antenna provides a perfect solution for manufactures who need a fixed-site, rooftop multi-GNSS antenna. The Bullet GG supports GPS and GLONASS constellations. The antenna is also a high-quality solution for adding GNSS RF signals for marine GNSS navigation systems.

Put it anywhere

The antenna is housed in weatherproof packaging designed to withstand exposure to shock, excessive vibration, extreme temperatures, rain, snow and sunlight

The dome is all plastic, and the threaded socket in the base of the antenna. The socket accepts either a 1”-14” straight threat (typical marine antenna mount) or a 3/4” pipe thread.

The F-type or TNC antenna connector is located inside the threaded socket, which allows the antenna cable to be routed inside a mounting pole and protects the cable connection for added reliability.

Strong Performance

DT-GPS-ANT antenna is an active GPS & GLONASS antenna with 35dB preamp (5V DC), 30dB preamp (3.3 VDC). The high-gain preamp allows the Bullet GG antenna to be used with up to 75 feet of RG-58 or RG-59 cable. The Bullet GG filtering improves impunity to other RF signals for reliable performance in hostile RF jamming environments.

Proven reliability

DT-GPS-ANT antenna is the fifth generation of the proven Bullet antenna family and offers all the reliability and performance benefits that are required for GNSS installations.

In unforgiving environments, an antenna failure could be disastrous. Don’t risk it. select a proven GNSS antenna

GPS & GLONASS Antenna

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature……-40°C to +90°C
Storage Temperature……..-40°C to +90°C
Vibration…… 10 – 200 Hz Log sweep
3g (Sweep time 30 minutes) 3 axes
Shock……50g vertical, 30g all axes
Humidity Soak……..+60°C @ 95% RH, 96 hours
Corrosion Salt Resistant…….5% Salt spray tested, 96 hours

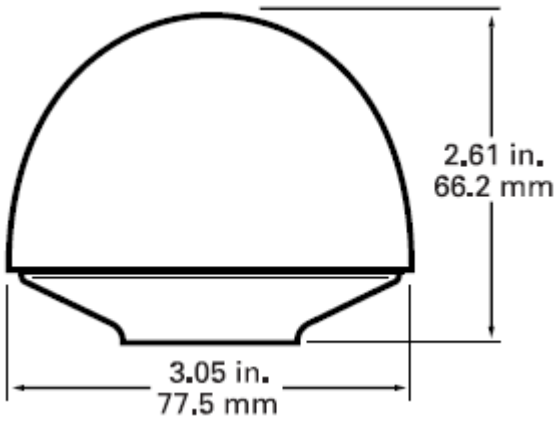
PHYISCAL CHARCTERISTICS – 3.3V & 5V DC ANTENNAS

Dimensions……3.05”D x 2.61” H (77.5mm x 66.2mm)
Weight……6.0oz (170grams)
Enclosure……Off-white plastic
Connector……F-type & TNC (5V) – TNC (3.3V only)
Mounting……1” – 14” thread or ¾” pipe thread

TECHNICAL / PERFORMANCE SPECIFICATIONS

Feature	3.3V	5.0V
Prime Power	3.3V DV (±10%)	5.0V DV (±10%)
Power Consumption	<20mA	30mA maximum
Gain	30dB @ 25°C	35dB ± 3dB
Output Impedance	50Ω	50Ω
Frequency	1588 ± 3MHz	1588 ± 3MHz
Polarization	RHCP	RHCP
VSWR	2.0 maximum	2.0 maximum
Axial ratio	90°: 4.0dB max 10°: 6dB max	90°: 4.0dB max 10°: 6dB max
Noise	3.3dB max (25°C ± 5°C)	3.3dB max (25°C ± 5°C)
Pass-band width	50 MHz	50 MHz
Out of Band rejection	fo=1588 MHz fo ±20 MHz: 7 dB min fo ±30 MHz: 12 dB min fo ±50 MHz: 20 dB min fo ±100 MHz: 30 dB min	fo=1588 MHz fo ±20 MHz: 7 dB min fo ±30 MHz: 12 dB min fo ±50 MHz: 20 dB min fo ±100 MHz: 30 dB min
Blocking 1dB Compression Point	100MHz to 1.5GHz >+15dBm 1.5GHz to 1.575GHz Linear decrease from +15dBm to -40dBm over frequency range 1.575GHz to 1.65GHz Linear increase from -40dBm to +15dBm over frequency range 1.65GHz to 3GHz >+15dBm	
Azimuth coverage	360° (omni-directional)	360° (omni-directional)
Elevation coverage	0°-90° elevation (hemispherical)	0°-90° elevation (hemispherical)

MECHANICAL



CONNECTORS