

WIDEBAND HIGH PERFORMANCE 4G/5G ANTENNA

HIGHLIGHTS

- Frequency range 600MHz to 6GHz
- Provides nearly 100% radiation efficiency
- Covers all 2G, 3G and 4G frequencies used worldwide (GSM, GPRS, DCS, UMTS, WCDMA, LTE, WLAN) and selected 5G frequencies - universal, future-proof antenna
- Up to 7dBi total net gain – without compromises
- Longer range than standard antennas, typical range > 35km
- Provides stable connection – good for critical ERP and VPN systems
- Robust, all-weather proof for harsh conditions
- Lightning and ESD protected



DESCRIPTION

proTAC 5311 offers space quality and military performance in compact and robust package. Its unique radiating element design is made from solid copper and provides nearly 100% radiation efficiency. It is universal and future-proof antenna that covers seamlessly frequencies between 600MHz to 6GHz without compromises.

TECHNICAL SPECIFICATIONS

Electrical Specifications (TA=25°C)	
Frequency range	600MHz-6GHz
Antenna gain	up to 7dBi total net gain
VSWR	<2.0
Impedance	50 Ohm
Polarisation	Vertical
Horizontal Radiation Pattern	Omnidirectional
Antenna type	Vertical monopole
Power handling (continuous total)	250W
Static discharge / Lightning protection	DC-grounded
DC shorted	Yes
Connector	N-female

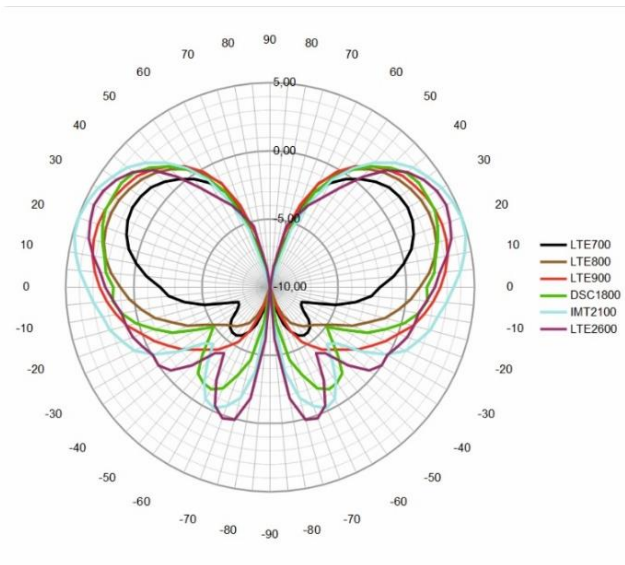
Mechanical and Environmental properties (TA=25°C)	
Dimensions	Height: 116mm Width: 90/140mm (radome / base plate)
Weight	0,6kg
Material	Plastic radome (ASA), aluminium base
Mounting	140mm flange mount (NATO mount) with 4x11mm holes DCD 115mm
Ingress protection	IP68 with O-ring / IP66 without O-ring *
Wind rating	55 m/s
Operational environment continuous	-40° - +85° C
Color	RAL5000 radome black base
Order code	ANT5311

*An IP68-rated product can be submerged up to 1,5m for up to 30minutes when installed on a waterproof surface and supplied O-ring seals the connector area.

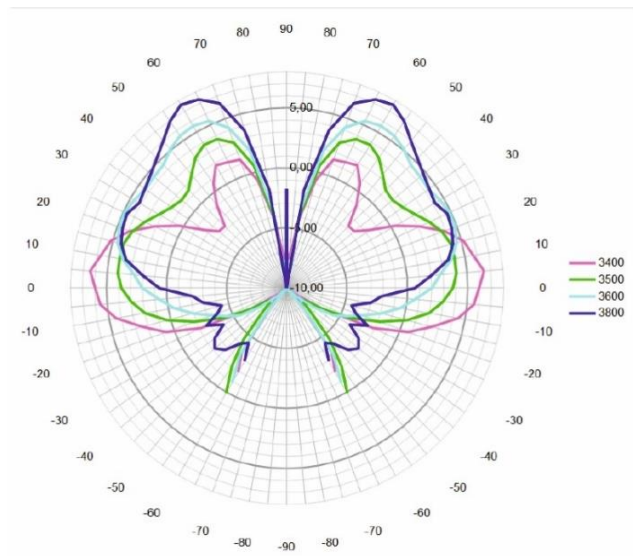
An IP66-rated product is protected against sprayed water, but the connector area is not sealed by an O-ring, allowing water access to the connector.

RADIATION PATTERN

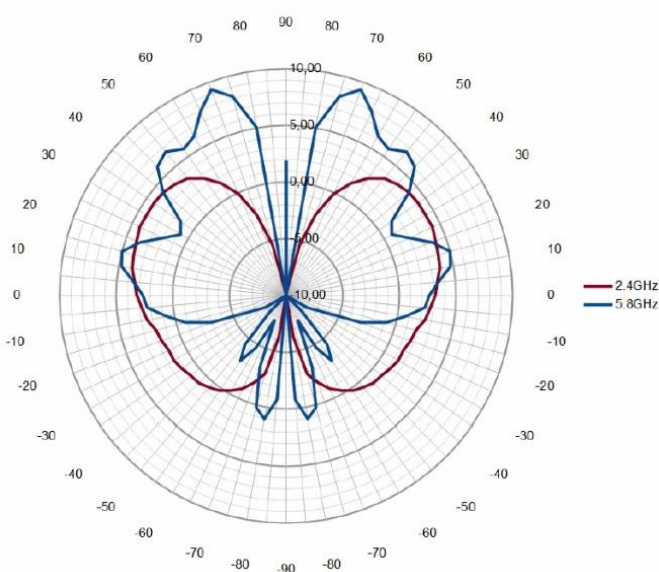
proTAC5311 is a vertical monopole variant. Horizontal radiation pattern is omnidirectional and close to a symmetric. Vertical pattern is affected by the ground plane / installation location that the antenna is mounted on.



RADIATION PATTERNS ON TYPICAL LTE FREQUENCIES, ACCANT1003 MOUNTING ACCESSORY

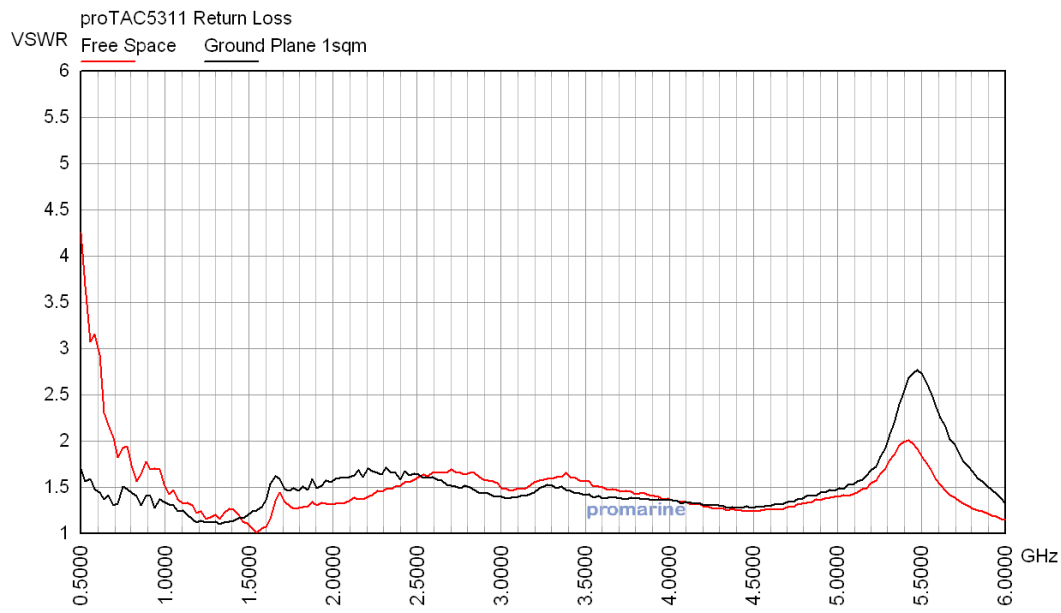


RADIATION PATTERNS ON 3.5GHz 5G BAND, NO MOUNTING ACCESSORY



RADIATION PATTERNS ON 2.4GHz AND 5.8GHz WIFI BANDS, NO MOUNTING ACCESSORY

VOLTAGE STANDING WAVE RATIO (VSWR)



MOUNTING DIMENSIONS

