



$$e = \sum_{n=0}^{\infty} \frac{1}{n!} = \lim_{n \rightarrow \infty} \left( \frac{1}{0!} + \frac{1}{1!} + \frac{1}{2!} + \dots + \frac{1}{n!} \right)$$

## HYC-UVNP4006-27, NATO Band IV HT-OFDM MESH Ad-Hoc IP Radio



The MobiRake HYC-UVNP4006-27-33 is a NATO band IV range (4.43 – 4.9 GHz) HT-OFDM tactical MESH Ad-Hoc IP Radio.

The UVNP4006-27-33 is designed to be light and easy to carry and install. The built-in mesh ad-hoc software can quickly communicate with existing MobiRake-MIMO fixed stations and mobile vehicle models to complete a tactical MESH Networks. Also equipped with The 2x2 MIMO antenna system design makes the transmission distance can be efficient Increase, and multipath issues of harsh environment can be effectively overcome.

Unmanned robots, unmanned aerial vehicles, handheld and any quick installation demands are all applications of this device.

<b>Operating Frequency</b>	<b>4430 – 4900 MHz</b>
Modulation	HT-OFDM
Output power	27 dBm or 33 dBm (option)
Channel Bandwidth	2.5 ~ 40 MHz (HT-OFDM)
Antenna System	2x2 MIMO
Antenna Connectors	Type SMA – Female x 2 or Type N - Female
Interfaces of UVNP4001R	3 pins (DC In) 9 pins (Ethernet) 6 pins (RS232 Data & Reset)
Operating mode of OFDM	PTP/PTMP/Mesh Ad-Hoc
IP Throughput	100 Mbps in 20 MHz BW
GPS	GPS coordinates and internet map database
Security	128 AES Encryption / proprietary protocol / MAC address control
Management & setup	Web-based
SNMP agents	MIB II
Dimension / Weight	n/a
Power Consumption	Max. 25 W (UVNP4006)
Power feed	DC 10 – 30 V (UVNP4006)
Waterproof	IP67
Ordering information	ATHN(V)4006-27, 4.4 – 4.9 GHz 0.5 W HT-OFDM MESH Ad-Hoc radio <b>ATHN(V)4006-33, 4.4 – 4.9 GHz 2 W HT-OFDM MESH Ad-Hoc radio</b> ATHN(V)4001-27, 4.9 – 5.4 GHz 0.5 W HT-OFDM MESH Ad-Hoc Radio <b>ATHN(V)4001-33, 4.9 – 5.4 GHz 2 W HT-OFDM MESH Ad-Hoc Radio</b> UVNP4006-27, 4.4 – 4.9 GHz 0.5 W Unmanned Vehicle radio ANTM4450GD10-M-NF, 4.5 GHz 10 dBi 2x2 MIMO Omni-directional ant. ANTM4954GD10-M-NF, 5 GHz 10 dBi 2x2 MIMO Omni-directional ant.

**Notes:** All Specifications are typical values and subject to change without prior notice.

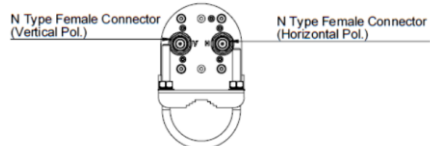
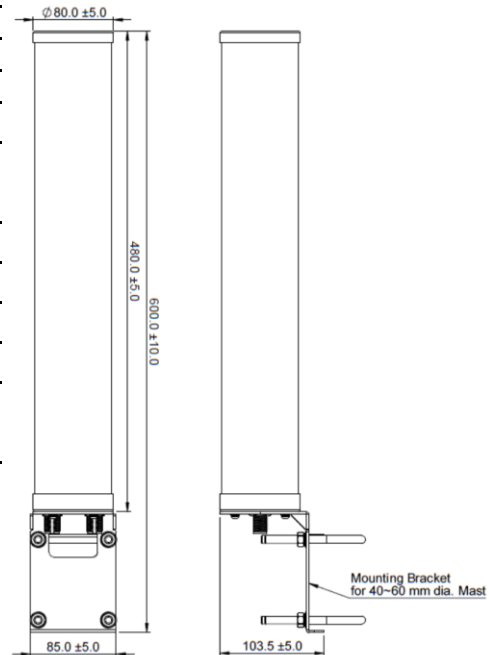
# NATO Band IV 4.4 – 4.9 GHz Omni-Directional Antenna

## ANTM4450GD10-M-NF, Electrical Specification

Frequency Band	4400 – 5000 MHz
Gain	2 x 10 dBi
Nominal Impedance	50 Ω
VSWR	≤2.0 : 1
Polarization	Linear, Vertical & Horizontal
HPBW-Azimuth	360°
HPBW- Elevation	10° (Approx.)
Port to Port Isolation	> 30 dB
Max. Power Handling	20 W
Operating Temperature	-40 °C~ +70 °C
Lightning Protection	DC Grounded

## Mechanical Specification

Connector	2 x N Type Female
Length	600 ±5 mm
Radome Diameter	Φ 76.5 ± 1 mm
Weight	1.6 Kg ± 50 g
Material	Stainless Steel & Corrosion-resistant aluminum alloy
Radome Material	ASA
Wind Survival	200 Km/h
Wind Load @ 150 Km/h	Side: 70 N (Approx.)
Color	Military Green
Mounting	Pole mount, on pole Φ 40 ~ 60 mm



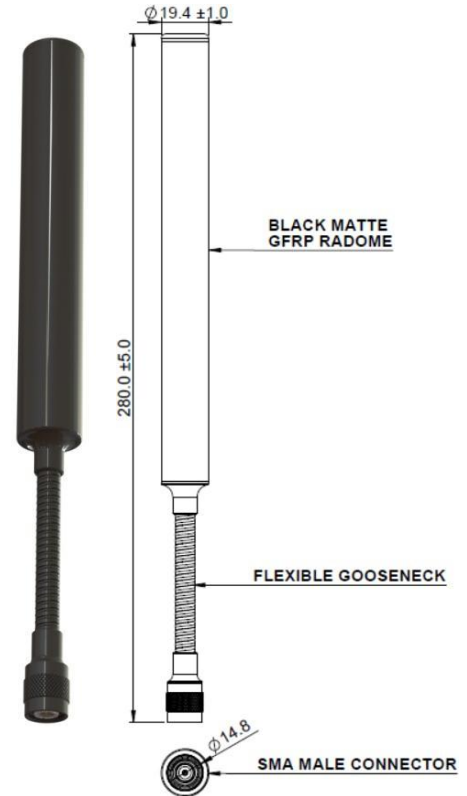
# NATO Band IV 4.4 – 4.9 GHz Omni-Directional Gooseneck Antenna

## ANTV444904M-MGN-SM, Electrical Specification

Frequency Band	4430 – 4900 MHz
Gain	$\geq 4$ dBi
Nominal Impedance	50 $\Omega$
VSWR	$\leq 2.0 : 1$
Polarization	Linear, Horizontal
HPBW-Azimuth	360°
HPBW- Elevation	40° (Approx.)
Max. Power Handling	10 W
Operating Temperature	-40 °C~ +70 °C

## Mechanical Specification

Connector	N, Male (SMA option)
Length	280 $\pm$ 5 mm
Diameter	$\Phi$ 19.4 $\pm$ 0.5 mm
Weight	$\leq 100$ g
Radome Materials	GFRP
Color	Matte Black
Mounting	Connector mode locking



## Ordering info:

ANTV44494V-MGN-SM, C Band Vertical Polarized Omni-Directional Gooseneck Antenna



Version NATO Dual Band III and Band IV