IP67, HYC-UVNP4006-27 For Unmanned Vehicle Mobile

HYC-ATHN(V)4006
Station 0.5 or 2W

## HYC-UVNP4006-27, Handheld 2x2 MIMO MESH Ad-Hoc IP Radio

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

The UVNP4006-27 is designed to be light and easy to carry and install. The built-in mesh ad-hoc software can quickly communicate with existing Athena-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.

| Operating Frequency | 4430 – 4900 MHz |
|---|---|
| Modulation | HT-OFDM |
| Output power | 27 dBm |
| Channel Bandwidth | 2.5 ~ 40 MHz |
| Sensitivity | -92 dBm |
| Antenna System | 2x2 MIMO |
| Antenna Connectors | Type SMA – Female x 2 or Type N - Female |
| Interfaces | 3 pins (DC In)<br>9 pins (Ethernet)<br>6 pins (RS232 Data & Reset) |
| Operating mode | 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 |
| Power feed | DC 10 – 30 V |
| Waterproof | IP67 |

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

# ATHNV4066-27, Station
# Dual 2x2 MIMO MESH Ad-Hoc IP Radio

## 2 RADIO NATO Band IV FREQUENCIES - 1 DEVICE

The HYC-ATHNV4066-27 is a 2 NATO band IV (4.43 – 4.9 GHz) combination HT-OFDM tactical MESH Ad-Hoc IP Radio in 1 device.

The ATHNV4066-27 provides a robust and highly scalable MANET to fixed station, mobile vehicle and unmanned vehicle to meet network requirements. The dual 2x2 MIMO wireless chains dynamically selects the best performing radio to maximize performance in congested or contested environments.

| Operating Frequency | 4430 – 4900 MHz (Wireless 1) | 4430 – 4900 MHz (Wireless 2) |
|---|---|---|
| Modulation | HT-OFDM | HT-OFDM |
| Output power | 27 dBm | 27 dBm |
| Channel Bandwidth | 2.5 ~ 40 MHz | 2.5 ~ 40 MHz |
| Sensitivity | -92 dBm | -92 dBm |
| Antenna System | 2x2 MIMO | 2x2 MIMO |
| Antenna Connectors | Type N Female x 4<br>Type TNC Female x 1 (GPS receiver) | |
| Interfaces | M12 Ethernet ports x 2 | |
| IP Throughput | 100 Mbps in 20 MHz BW | 100 MHz in 20 MHz BW |
| Operating mode | PTP<br>Hops-Relay (Supports dual directional connectivity)<br>MESH<br>OTM (On the Move) | |
| GPS | GPS coordinates and internet map database | |
| Security | 128 AES Encryption / proprietary protocol / MAC address control | |
| Management & setup | Web-based | |
| SNMP agents | MIB II | |
| Power consumption | 65 W | |
| Input Voltage | DC 36 – 72 V | |
| Dimension / Weight | 300 x 200 x 100, mm; 5.8 kgW | |

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

# ANTM4450GD10-M-NF,
# Omni-Directional Antenna Vehicle Mount

ANTM4450GD10-M-NF, Electrical Specification

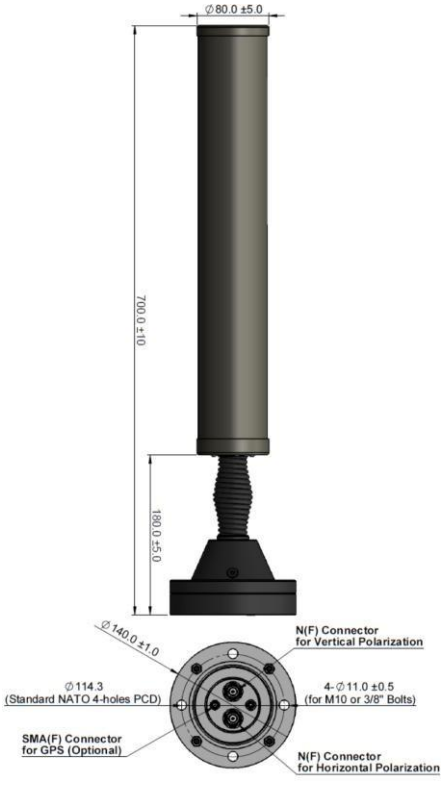
| | |
|---|---|
| Frequency Band | 4400 ~ 5000 MHz |
| Gain | 2 x 9 dBi |
| Nominal Impedance | 50 Ω |
| VSWR | ≦2.0 : 1 |
| Polarization | Linear, Vertical & Horizontal |
| HPBW-Azimuth | 360° |
| HPBW- Elevation | 10° (Approx.) |
| Port to Port Isolation | > 30 dB |
| Max. Power Handling | 20 W |
| Operating Temperature | -40 °C~ +70 °C |
| Lightning Protection | DC Grounded |

Mechanical Specification

| | |
|---|---|
| Connector | 2 x N Type Female for C Band<br>SMA Female for GPS (Optional) |
| Dimensions | 700 ± 10 (L) x 140 ± 1.0 (OD) mm |
| Radome Diameter | Φ 80 ± 5 mm |
| Weight | 1.6 Kg ± 50 g |
| Material | Stainless Steel, Brass |
| Radome Material | FRP or ASA |
| Wind Survival | 200 Km/h |
| Wind Load @ 150 Km/h | Side: 80 N (Approx.) |
| Color | NATO GREEN # 5864A & Matte Black |
| Mounting | Standard NATO 4-hole, fixed with 4 x M10 or 3/8" Bolts |

Accessories

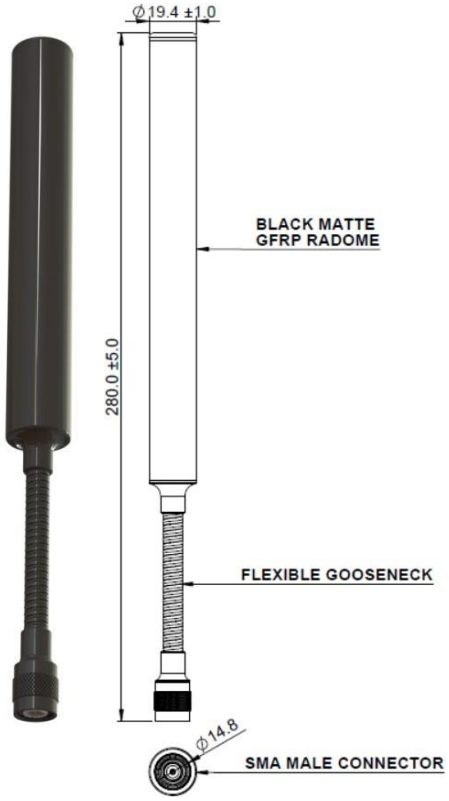
| |
|---|
| Waterproof Gasket, 1 PCS |
| M10 x 55L Blackened Screw, 4 PCS |
| M10 Blackened Nut, 4 PCS |
| M10 Blackened Spring Washer, 4 PCS |
| Ground Strap, 1 PCS |



# ANTV444904M-MGN-SM ,
# Omni-Directional Gooseneck Antenna

ANTV444904M-MGN-SM, Electrical Specification

| | |
|---|---|
| Frequency Band | 4430 – 4900 MHz |
| Gain | ≧4 dBi |
| Nominal Impedance | 50 Ω |
| VSWR | ≦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 | SMA, Male (Non-Rotating)<br>N, Male (Option) |
| Length | 280 ±5 mm |
| Diameter | Φ 19.4 ± 0.5 mm |
| Weight | ≦100 g |
| Radome Materials | GFRP |
| Color | Matte Black |
| Mounting | Connector mode locking |

Ordering infomation:

- ANTV44494V-MGN-SM, C Band Vertical Polarized Omni-Directional Gooseneck Antenna, SMA Male connector
- ANTV44494V-MGN-NM, C Band Vertical Polarized Omni-Directional Gooseneck Antenna, N Male connector



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