

Hypercable®



Unmanned Aerial Vehicle Wireless Solution

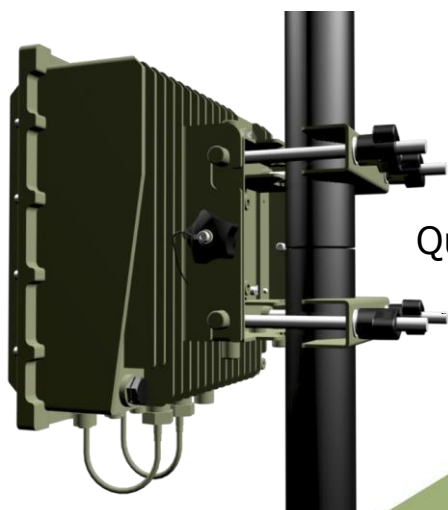
- ☐ 2 GHz
- ☐ 20 ~ 30 KM coverage
- ☐ AES 128/256 encryption
- ☐ SSH RSA key 2048 bits access management
- ☐ Highly resistant to interference & multipath





Ground station 2x2 MIMO - Specification

Wireless	HYC-N4006
Frequency range	2200 - 2560 MHz
System output power	37 dBm $\pm$ 1.5 dB
Channel bandwidth	2.5 - 20 MHz
Operating RF channel	ONE
Modulation	CCK, DSSS, HT-OFDM
Sensitivity	Varying between -96 dBm $\pm$ 1 dB and -73 dBm $\pm$ 2 dB
Antenna system	2x2 MIMO
Max. Physical Layer Data Rate	100 Mbps per wireless chain
Operating mode	Mesh Ad-Hoc
Ant. connector	Type SMA Female x 2 (base band unit)
Interfaces	1. 3 pins circular connector x 1 --- 36~72V DC In put 2. 8 pins M12 connector x 2 --- Ethernet 1 & Ethernet 2 3. TNC (Female) connector x 1 --- GPS antenna (Optional) 4. N type (Female) connector x 2
Input Voltage	36 - 72 VDC
Power consumption	Max. 45 W (system)
Weight	3.85 kg (will be adjustment by project)
Dimension	246 x 219.4 x 89.5, mm (will be adjustment by project)
Waterproof	IP67
Ordering information	
ANT2325G10D-M-NF	2300 - 2500 MHz 10 dBi 2x2 MIMO Omni antenna



Quick Assembly Mounting kits (Optional)



Unmanned Vehicle Radio 2x2 MIMO - Specification

Wireless	HYC-UVNP4005R
Frequency range	2200 - 2560 MHz
System output power	37 dBm $\pm$ 1.5 dB
Channel bandwidth	2.5 - 20 MHz
Operating RF channel	ONE
Modulation	CCK, DSSS, HT-OFDM
Sensitivity	Varying between -96 dBm $\pm$ 1 dB and -73 dBm $\pm$ 2 dB
Antenna system	2x2 MIMO
Max. Physical Layer Data Rate	100 Mbps per wireless chain
Operating mode	Mesh Ad-Hoc
Ant. connector	Type SMA Female x 2 (base band unit)
Interfaces of base band unit	3 pins (DC In) 9 pins (Ethernet) 6 pins (Serial Data & Reset)
Input Voltage	12 - 24 VDC (base band unit) 12 VDC (range extender)
Power consumption	Max. 45 W (system)
Weight	548 g (base band unit) 485 g (range extender)
Dimension	155 x 133 x 36, mm (base band unit) 157 x 75 x 24, mm (range extender)
Waterproof	IP67 (base band unit) IP50 (range extender)

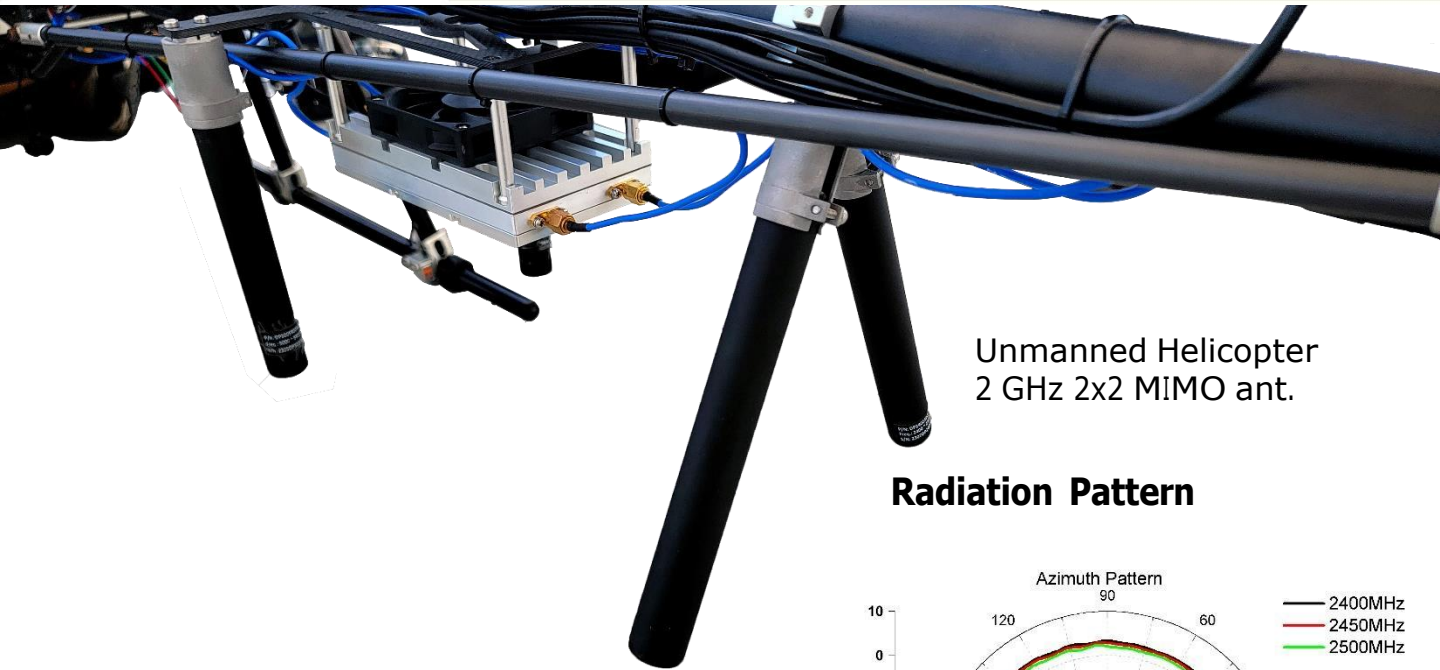


MIMO Range extender
2 GHz 5 Watts output
Dimension: 157 x 75 x 24, mm
Weight: 485 g



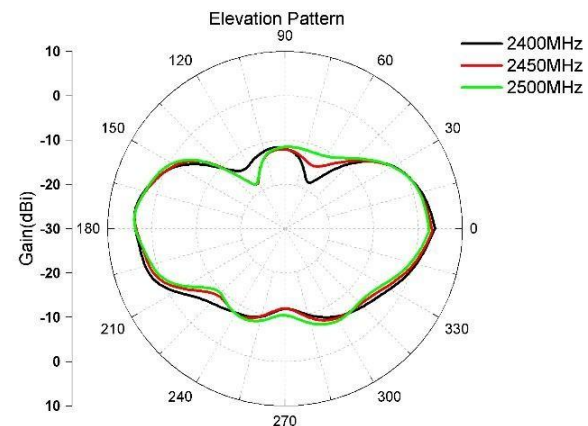
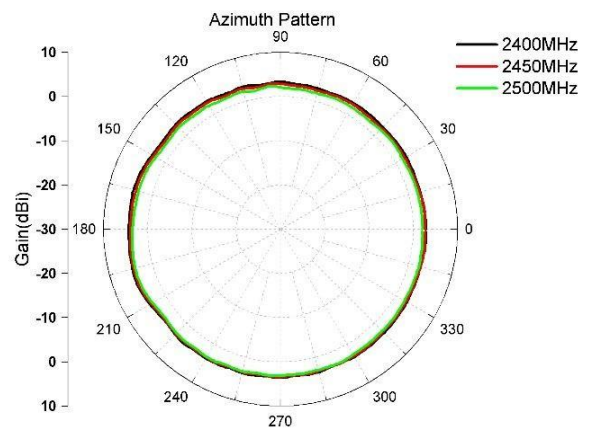
2x2 MIMO base band Unit
Front and rear inputs & outputs

2300 MHz – 2500 MHz Unmanned Helicopter Antenna



Unmanned Helicopter
2 GHz 2x2 MIMO ant.

Radiation Pattern



Electrical Specification, ANTV2425G3-M-SF

Frequency Band	2300 - 2500 MHz
Gain	3.5 ± 0.5 dBi
Nominal Impedance	50 Ω
VSWR	$\leq 2.0:1$
Polarization	Linear, Vertical
HPBW-Azimuth	360°
HPBW- Elevation	28° ~ 33°

Mechanical Specification

Connector	SMA, Female
Length	$\leq 175 \pm 2$ mm
Diameter	$\leq \Phi 19.5 \pm 0.5$ mm
Weight	$< 40 \pm 2$ g
Color	black

2300 MHz – 2500 MHz Ground Station Antenna

Electrical Specification, ANT2325G10D-M-NF

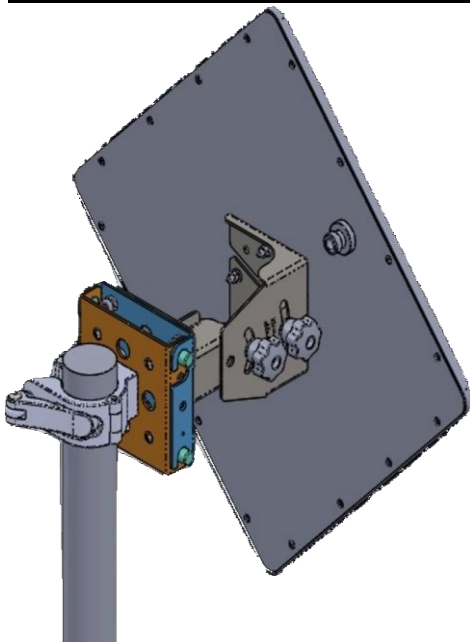
Frequency Band	2300 – 2500 MHz
Gain	Vertical Polarization @ 9 dBi Horizontal Polarization @ 10 dBi
Polarization Dual Pole	Vertical & Horizontal
HPBW-Azimuth	360°
HPBW-Elevation	28° ~ 33°
Port to Port Isolation, typ.	- 35 dB
Nominal Impedance	50 Ω
VSWR	≤2.0:1
Input power, max.	10 Watts

Mechanical Specification

Connector	2 x N-type, female
Dimensions (H x Dia.)	640 x 110 mm
Weight	1.2 Kg
Radome	UV Protected Plastic
Mount	2" Pole Mount



ANT2325G10D-M-NF
Ground station antenna
2 GHz 2x2 MIMO ant.



Ground station 16-19 dB
gain, panel antenna with
the Quick Mount for long
range coverage
2 GHz 2x2 MIMO H&V and
+- 45° polarization