

Ground Station & Drone Radio 2 GHz / 5 GHz Band

Features

- Included 2 GHz / 5 GHz ISM band range
- Supports 2.5 MHz ~ 40 MHz channel bandwidth
- Lightweight
- Mesh Ad-Hoc
- Seamless roaming of drone radio
- 210 Mbps max throughput of Eth. Port of 2X2 MIMO ground station
- Supports 2.5 MHz narrow channel bandwidth
- 10 Km radius Omni-directional coverage
- Supports multi-drones missions
- Fixed ground, vehicle and vessel stations applications



**HYC-N4001/4005
2x2 MIMO Ground Station**



**HYC-N4111/4555
6x6 MIMO Ground Station**

Features

- Included 2 GHz / 5 GHz ISM band range
- Supports 2.5 MHz ~ 40 MHz channel bandwidth
- Mesh Ad-Hoc
- Seamless roaming of drone radio
- 300 Mbps max throughput of Eth. Port of 6x6 MIMO ground station
- Supports 2.5 MHz narrow channel bandwidth
- 20 Km radius Omni-directional coverage
- Supports 20 drones missions
- Fixed ground, vehicle and vessel stations applications

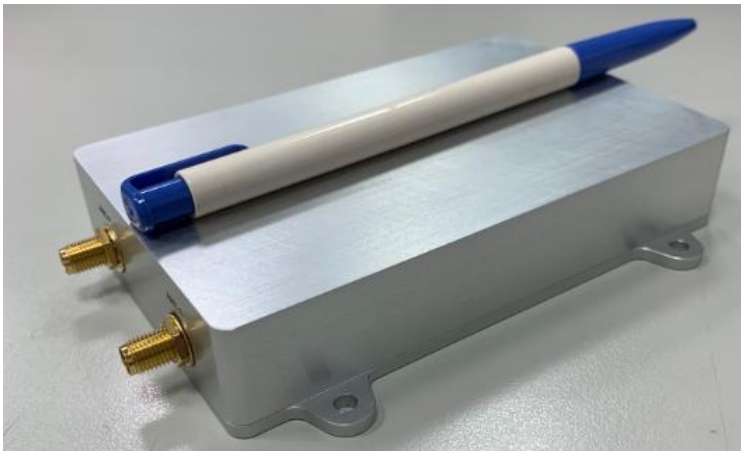
HYC-N Series 6x6 MIMO Specification

ITEMS	HYC-ND4555-28	HYC-ND4111-27
Frequency range	2200 - 2560 MHz	4900 - 6100 MHz
Output power	28 dBm ± 1.5 dB	27 dBm ± 1.5 dB
Channel bandwidth	2.5 - 40 MHz	2.5 - 40 MHz
Operating RF channels	THREE	THREE
Modulation	CCK, DSSS, HT-OFDM	HT-OFDM
Sensitivity	Varying between -96 dBm ± 1 dB and -73 dBm ± 2 dB	
Antenna system	6x6 MIMO	6x6 MIMO
Max. Physical Layer Data Rate	300 + 300 + 300 Mbps	300 + 300 + 300 Mbps
Operating mode	Mesh Ad-Hoc	Mesh Ad-Hoc
Ant. connector	Type SMA Female x 6	Type SMA Female x 6
Interfaces	M12 3 pins (DC In) M12 8 pins (Ethernet) x 2 Power Switch	M12 3 pins (DC In) M12 8 pins (Ethernet) x 2 Power Switch
Input Voltage	10 - 30 VDC	10 - 30 VDC
Power consumption	Max. 24 W	Max. 24 W
Weight	< 3.0 Kg	< 3.0 Kg
Dimension	< 1500 (L) x 400 (D), mm	< 1000 (L) x 300 (D), mm
Coverage	20 km	20 km
Antenna specification		
Frequency range	2200 – 2560 MHz	4900 – 6100 MHz
Gain	6 x 12 dBi	6 x 14 dBi
Polarization	Circular	
VSWR	≤ 2.0 : 1	
HPBW-Azimuth	120°	
HPBW-Elevation	6°	
Ports Isolation	-25 dB Typ.	
Radome	UV Protected Polycarbonate	



HYC-N Series Drone Radio Specification

ITEMS	HYC-ND4005-28	HYC-ND4001-27
Frequency range	2200 - 2560 MHz	4900 - 6100 MHz
Output power	28 dBm \pm 1.5 dB	27 dBm \pm 1.5 dB
Channel bandwidth	2.5 - 40 MHz	2.5 - 40 MHz
Operating RF channel	ONE	ONE
Modulation	CCK, DSSS, HT-OFDM	HT-OFDM
Sensitivity	Varying between -96 dBm \pm 1 dB and -73 dBm \pm 2 dB	
Antenna system	2x2 MIMO	2x2 MIMO
Max. Physical Layer Data Rate	300 Mbps	300 Mbps
Operating mode	Mesh Ad-Hoc	Mesh Ad-Hoc
Ant. connector	Type SMA Female x 2	Type SMA Female x 2
Interfaces	Lemo 3 pins (DC In) Lemo 8 pins (Ethernet) Lemo 5 pins (RS232 Data & Reset)	Lemo 3 pins (DC In) Lemo 8 pins (Ethernet) Lemo 5 pins (RS232 Data & Reset)
Input Voltage	12 - 24 VDC	12 - 24 VDC
Power consumption	Max. 12 W	Max. 12 W
Weight	< 200 g	< 200 g
Dimension	115 x 73 x 23	115 x 73 x 23
Flight distance of drone	10 km (2x2 MIMO) 20 km (6X6 MIMO)	10 km (2x2 MIMO) 20 km (6X6 MIMO)
Advanced application	Options, 2 Watts 2x2 MIMO or 0.5 Watt 4x4 MIMO drone radio	



DRONE RADIO

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