

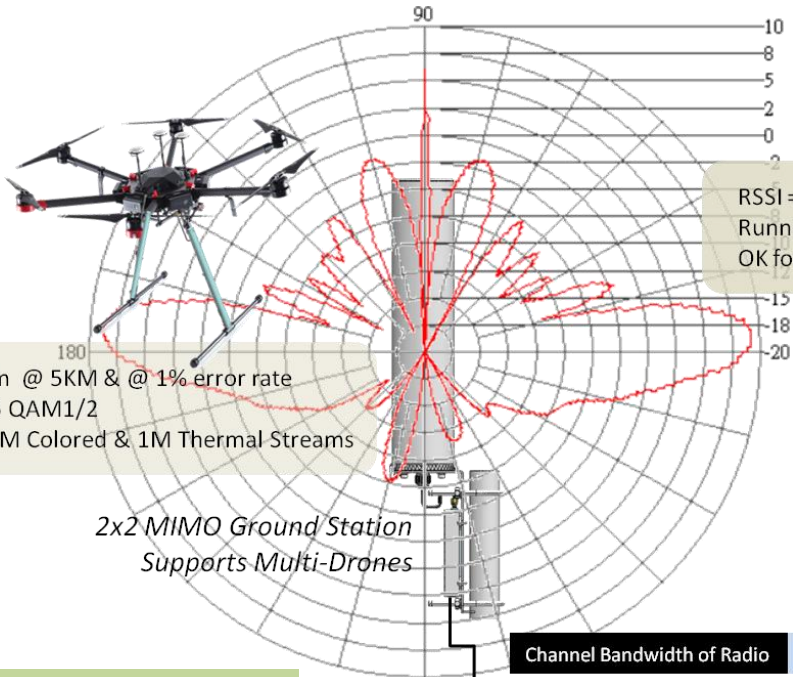
Ground Station & Drone Radio 2 GHz / 5 GHz Band

Features

- Included 2 GHz/5 GHz ISM band range
- Supports 2.5 MHz ~ 40 MHz channel bandwidth
- Lightweight of drone radio
- MESH Ad-Hoc
- Seamless roaming of drone radio
- Supports multi-drones connectivity
- 210 Mbps max throughput of Eth. port of ground station
- Supports 2.5 MHz narrow channel bandwidth
- RS232 for traffics data for redundancy



Ground Station



RSSI = -86dBm @ 10KM & @ 1% error rate
Running in QPSK1/2
OK for both 2M Colored & 1M Thermal Streams

**Reference
Linking budget of 5GHz**

Channel Bandwidth of Radio	5MHz	10MHz	20MHz	40MHz
Net throughput of Eth. port	25Mbps	51Mbps	104Mbps	215Mbps

HYC-N Series Specifications

ITEMS	HYC-ND4005-28	HYC-ND4001-27
Frequency range	2200 - 2560 MHz	4900 - 6100 MHz
Max. 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
Receive 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
Protocol	Mesh Ad-Hoc	Mesh Ad-Hoc
Antenna 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	< 190 g	< 190 g
Dimension	115 x 73 x 23	115 x 73 x 23
Flight Distance of Drone	15 km	10 km
Advanced	HYC-N4555/HYC-N4111 ground station supports <i>Multi-Drones</i> transmission	



Drone Radio



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