

HYC-ND400cS-39 8 Watts SISO HT-OFDM Radio

Features

- 600 MHz Operating frequency
- Supports 2.5 MHz ~ 10 MHz channel bandwidth
- CCK, DSSS, HT-OFDM
- 8 Watts Output Power
- SISO Antenna System
- MESH Ad-Hoc
- 32.5 Mbps max throughput of Eth. port of ground station in 10MHz channel bandwidth
- Supports 2.5 MHz narrow channel bandwidth
- RS232 for traffics data



Distance to Horizon

Horizon calculator - radar / visual

Height h_1	<input type="text" value="850"/>	m ▾
Height h_2	<input type="text" value="20"/>	m ▾
Radar Horizon	<input type="text" value="138.68154586841"/>	km ▾
Visual Horizon	<input type="text" value="120.10174175814"/>	km ▾

Reference:

*RSSI = -83dBm @ 120 KM @ 1% error rate, running in QPSK1/2 mode.
7dBi Omni-directional @ vessel & 5dBi Omni-directional @ mobile vehicle*

HYC-ND Series Specifications

Items	HYC-ND400cS-33	HYC-ND40cS-39
Frequency range	600 - 620 MHz	600 - 620 MHz
Max. Output Power	33 dBm \pm 1.5 dB	39 dBm \pm 1.5 dB
Channel Bandwidth	2.5 - 10 MHz	2.5 - 10 MHz
Operating RF Channel	ONE	ONE
Modulation	CCK, DSSS, HT-OFDM	CCK, DSSS, HT-OFDM
Receive Sensitivity	Varying between -96 dBm \pm 1 dB and -73 dBm \pm 2 dB	
Antenna System	1x1 SISO	1x1 SISO
Max. Physical Layer Data Rate	32.5 Mbps	32.5 Mbps
Protocol	Mesh Ad-Hoc	Mesh Ad-Hoc
Antenna Connector	Type SMA Female x 1	Type SMA Female x 1
Interfaces	M12 3 pins (DC In) M12 8 pins (Ethernet) M12 5 pins (RS232 Data & Reset)	M12 3 pins (DC In) M12 8 pins (Ethernet) M12 5 pins (RS232 Data & Reset)
Input Voltage	10 - 30 VDC	10 - 30 VDC
Power Consumption	Max. 20 W	Max. 70 W
Weight	< 600 g	< 1200 g
Dimension	150 x 123 x 45	170 x 163 x 45
Flight Distance of Mobile Vehicle	30 km Radius coverage	120 km Radius coverage



HYC - ND Radio

<https://youtu.be/7aJU3wUzRoc>

LEADING THE MIMO REVOLUTION – **Hypercable JCDC**

ANTENNA for Ground Station

Electrical Specification

Frequency Band	600 ~ 620 MHz
Gain	7 dBi
Nominal Impedance	50Ω
VSWR	< 1.5 : 1
Polarizations	Linear, Vertical
HPBW-Azimuth	360°
HPBW-Elevation	17°
Max. Power Handling	150 W
Operating Temperature	-40°C ~ +80°C

Mechanical Specification

Connector	N-Type, Female
Length	2110 ± 10.0 mm
Diameter	42 ± 0.5 mm
Antenna Weight	2.0 Kg
Mounting Weight	2.7 Kg
Wind Load @150km/h	90 N
Color	Green
Mounting	Clamp Set , On pole Φ 30~70 mm

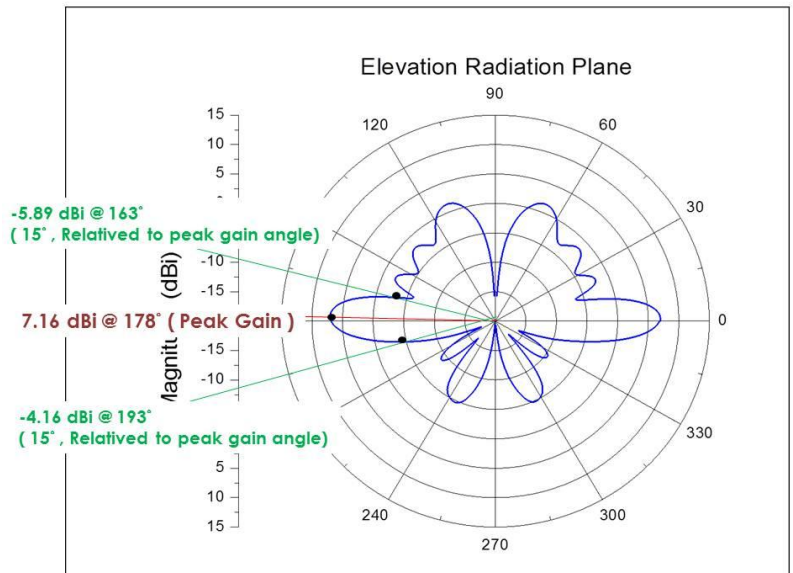
Electrical Specification

Frequency Band	600 ~ 620 MHz
Gain	5 dBi
Nominal Impedance	50 Ω
VSWR	< 1.5 : 1
Polarizations	Linear, Vertical
HPBW-Azimuth	360°
HPBW-Elevation	28°
Max. Power Handling	150 W
Operating Temperature	-40°C ~ +80°C

Mechanical Specification

Connector	N-Type, Female
Length	1457 ± 10.0 mm
Diameter	42 ± 0.5 mm
Antenna Weight	1.4 Kg
Mounting Weight	2.7 Kg
Wind Load @150km/h	60 N
Color	Green
Mounting	Clamp Set , On pole Φ 30~70 mm

Ordering Information:
 ANT-M600620M05-M
 ANT-M662687M05-M
 ANT-M600620M07-M
 ANT-M662687M07-M



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