

Rhein Tech Laboratories
360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

Client: M/A COM, Inc.
Model: OpenSky SkyLink ISM Radio
Standards: FCC Part 15
Report Number: 2004100
Date: July 20, 2004

APPENDIX D: ANTENNA SPECIFICATIONS

Please refer to the following pages.

2.4 GHz (2.4 - 2.5) STANDARD PARABOLIC ANTENNAS

FEATURES

- **Antenna diameters;**
 - 1' (30 cm)
 - 2' (60 cm)
 - 3' (90 cm)
 - 4' (120 cm)
 - 6' (180 cm)
- **Antenna weights**
 - 1' 15 lbs. (6.8 kg)
 - 2' 22 lbs. (9.9 kg)
 - 3' 35 lbs. (15.8 kg)
 - 4' 60 lbs. (27.0 kg)
 - 6' 90 lbs. (40.5 kg)
- **SP models:** standard parabolic, plane polarized
- **Connector interface;** type "N" female
- **Ease of installation:** antennas shipped completely assembled, minimal mount required
- **Optional molded radomes;** radomes shipped factory installed
- **Left or right** pole mountable
- **Rugged and lightweight** cast aluminum mount with and without fine adjustment
- **Standard white;** other colors and/or logos available on request
- **Corrosive resistant:** all mount materials are coated aluminum, hot dipped galvanized steel and stainless steel (300 series).
- **Three year warranty**



2.4 - 2.5 GHz ELECTRICAL SPECIFICATIONS (typical performance)*

Model Number	Diameter ft (cm)	Gain, dBi Mid-band	Beamwidth Degrees, 3dB	X Pol Disc., dB	Isolation, dB Port - Port	F/B Ratio, dB	VSWR Max. (R.L., dB)
Plane Polarized							
SP1-2.4	1 (30)	14.0	28.2	17	—	25	1.4:1 (15.5)
SP2-2.4	2 (60)	21.3	14.0	28	—	28	1.4:1 (15.5)
SP3-2.4	3 (90)	24.3	9.5	30	—	30	1.4:1 (15.5)
SP4-2.4	4 (120)	27.2	7.3	30	—	34	1.4:1 (15.5)
SP6-2.4	6 (180)	30.3	4.8	30	—	38	1.4:1 (15.5)
Dual Polarized							
SPD2-2.4	2 (60)	21.1	14.0	28	20	28	1.4:1 (15.5)
SPD3-2.4	3 (90)	24.1	9.5	30	20	30	1.4:1 (15.5)
SPD4-2.4	4 (120)	27.0	7.3	30	20	34	1.4:1 (15.5)
SPD6-2.4	6 (180)	30.1	4.8	30	20	38	1.4:1 (15.5)

* All specifications subject to change without notice.

2.4 - 2.5 GHz GRID PARABOLIC ANTENNAS

FEATURES

- **Antenna diameters**
 - 3' (90 cm)
 - 4' (120 cm)
 - 6' (180 cm)
- **Antenna weights**
 - 3' 25 lbs. (11.3 kg)
 - 4' 35 lbs. (15.8 kg)
 - 6' 80 lbs. (36.0 kg)
- **Connector Interface;** Type "N" female
- **Lightweight design,** easily installed
- **Reduced windloading** by 30 - 40% of equivalent size solid parabolics.
- **Corrosive resistant:** materials are of coated aluminum, hot dipped galvanized or stainless steel
- **Three year warranty**



2.4 - 2.5 GHz ELECTRICAL SPECIFICATIONS (typical performance)*

Model Number	Diameter ft (cm)	Gain, dBi Mid	Beamwidth Degrees, 3dB	X Pol. Disc., dB	F/B Ratio, dB	VSWR Max. (R.L., dB)
Linear Polarized						
G3-2.4	2.4 - 2.5	24.5	9.2	25	28	1.5:1 (14.0)
G4-2.4	2.4 - 2.5	27.0	7.1	25	30	1.5:1 (14.0)
G6-2.4	2.4 - 2.5	30.3	4.6	25	32	1.5:1 (14.0)

* All specifications subject to change without notice.

Winncom Technologies Corp.

Description

13.5 dBi Omnidirectional Antenna, Horizontally Polarized, 2.4 GHz
Product Code WRO2400-135H

Antenna Performance	
Frequency	2.400 - 2.483 GHz
Gain (dBi)	13.5
VSWR	>1.5:1
Polarization	Horizontal
-3 dB Beamwidth	9°
Impedence (ohms)	50
Maximum Power Rating	100 W
Physical Characteristics	
Height	29.2 in. (737 mm)
Weight (Including Clamps)	2.5 lb. (1.46 kg)
Wind Load	125 mph (200 km/h)
RF Connector	N type female
Mounting	Stainless steel bracket set for Mast or Pole mounting 1.2 - 2.5 in (30 - 62 mm)