

Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
12/20/99	Solectek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	1

SOLECTEK		6370 Nancy Ridge Drive, Suite 109 San Diego, CA 92121
PAGE #	DESCRIPTION	FCC ID #
33	Amendment Report of Transceiver Model MP1100 <i>SKYWAY SERIES TRANSCEIVER</i>	KA324WAN5

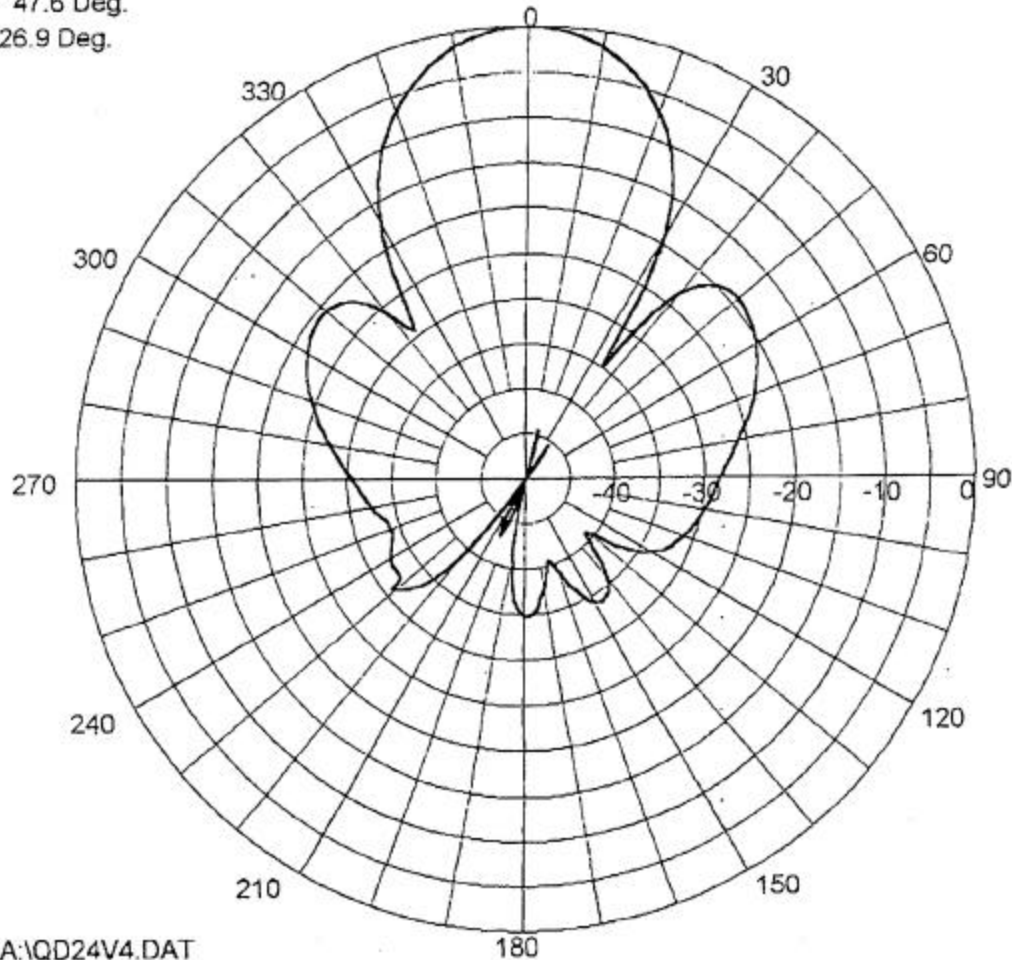
ANT-PNL-16

SPECIFICATIONS	QD-2400
Input Frequency	2400 - 2500 GHz
Net Gain (Coxial Lead and Connector)	15.2 dBi
3 dB Bead Width (Typical)	28°
Front to Back Ratio (Typical)	>40 dB
Cross Pole	>30 dB
VSWR	1.5:1
Impedance	50 ohms
15Kohm Resistor (Integral)	Sensing Resistor
Wind Loading	
@100 MPH	25.0 lbs.
@140 MPH	49.4 lbs.
Polarity	Dual
Size	
Inches	10.75 x 11
Millimeters	.42 x .43
Weight	
Pound	2.0
Kilograms	.91
Reflector Material	Stamped Aluminum
Backplate Bracket Material	Zinc-plated Steel
Housing Material	High Impact ABS Plastic
Mounting	1 - 2 inch O.D. Pipe
Micro-mount (optional mounting) Material	Stainless Steel/Aluminum
EX-1000 Extension Tube	
Size	12 inches
Material	Aluminum

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12/20/99	Solcetek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	2

Conifer Corporation Polar Plotter

Gain = 15.53 dBi
Frequency = 2.5 GHz
10dB BW = 47.6 Deg.
3dB BW = 26.9 Deg.



File Name =A:\QD24V4.DAT

Comments: QD2400 VERTICAL 2.5-2.8GHz

Conifer Corporation 1400 N. Roosevelt Avenue Burlington IA 52601 (319) 752-3607

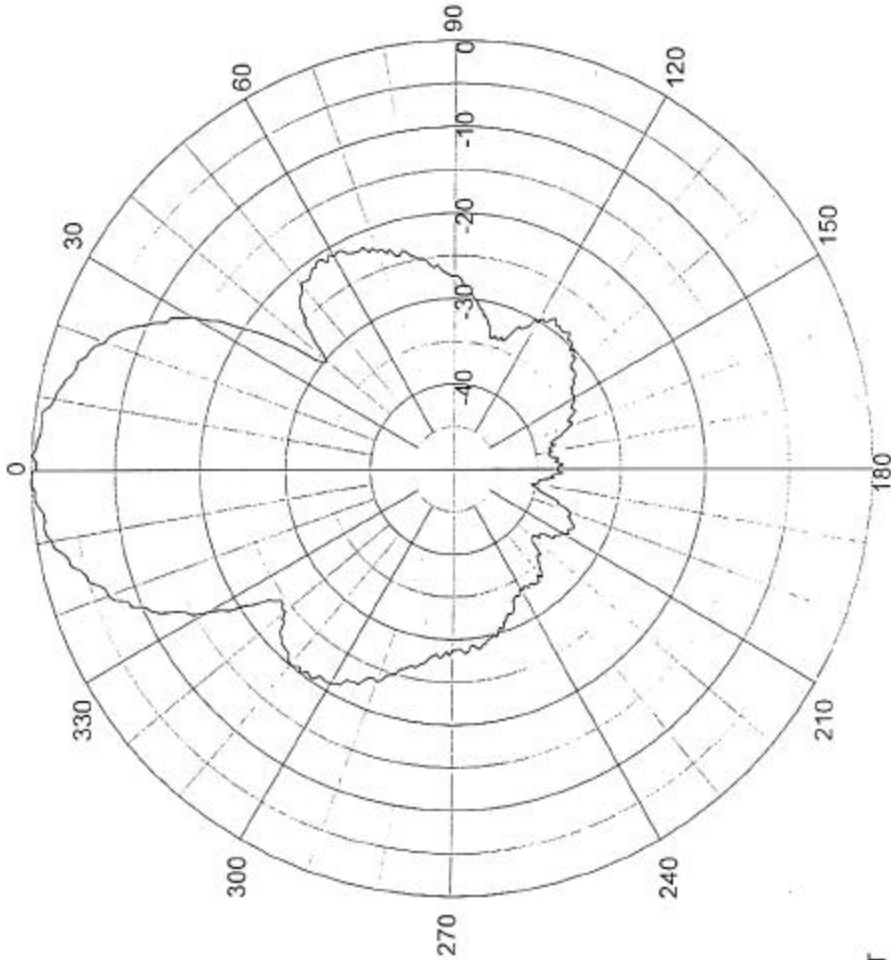
TRADE SECRET

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12/20/99	Soltek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	3

Conifer Corporation Polar Plotter

Gain = 15.4 dBi
Frequency = 2.4 GHz
10dB BW = 49 Deg.
3dB BW = 25.4 Deg.



File Name =J:\0000VS01.DAT
Comments: Vert. QD-2418 (QD-2400 w/12.1 K resistor)

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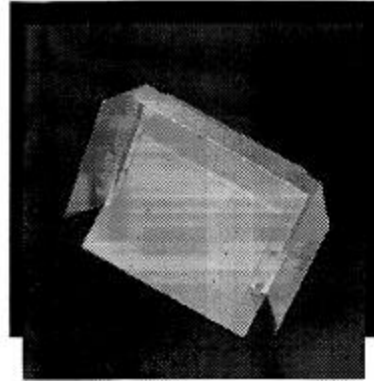
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MICROCEPT™

Installation Sheet

Warning: Installation of Antenna near power lines is dangerous!



PACKAGING

Master Carton

22 x 22 x 12 inches weight 31#

Packed in Master Carton

Ten (10) individual Microceptor™ boxes

Individual Box

11 1/4 x 10 3/4 x 4 1/4 inches

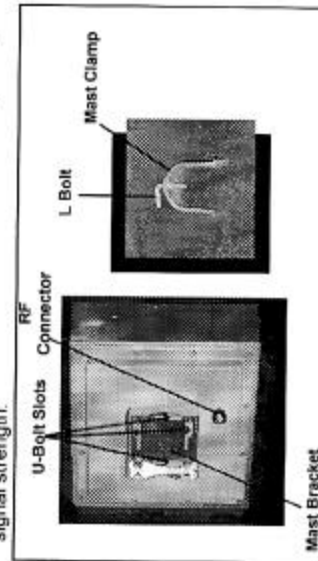
Packed in Individual Box

1 Microceptor™ Antenna
1 Mast Clamp
1 "L" Bolt

Warning: Installation of Antenna near power lines is dangerous!

ASSEMBLY

1. Determine the polarity of the antenna. Note the "Horiz." or "Vert." guide near the RF connector for proper positioning.
2. With selected polarity in the upright/readable position, insert the mast clamp (angled slightly) into the wide end of the slot on the mast bracket.
3. Push the mast clamp up into the narrow end of the slot.
4. Tighten the "L" bolt to secure to the mast after optimizing for maximum signal strength.



PN 452043
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Wireless

ANTENNAS

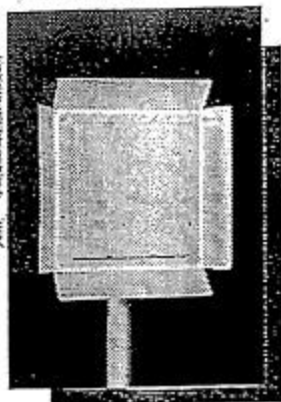
For World-Wide Applications

WLAN/ISM

2.4 - 2.5 GHz*

New Microceptor® Series

Model QD-2400
16dBi Typical Gain



Model DL-2400
13dBi Typical Gain



FEATURES

- Quick Mount "U" Bracket
- Light Weight But Durable
- Excellent Cross Pole Patterns
- Low Wind Loading
- Five Year Warranty

BENEFITS

- Easy To Install
- Saves On Shipping Costs
- Superior Performance
- Minimal Hardware Per Installation
- Guaranteed Reliability



Optional
Microceptor® Cover
Model QC-1000
Blend the Microceptor even
farther into the background
with Conifer's "Disappearing
Cover"!



CONIFER II®
WIRELESS TELECOMMUNICATION TECHNOLOGY

1400 N Roosevelt, Burlington, IA 52601
Phone 800-843-5419 (U.S.), 319-752-3607 (Int'l)
Fax 319-753-5508, email <conifer@conifercorp.com>



Optional
Micro-Mount™
Model UM-1000
The universal Micro-Mount makes antenna
installation a snap!
Mount it to a wall, a vent,
roof, and even most rain
gutters.

*Contact Conifer's Sales Department for other
frequencies such as PCS, ENG.

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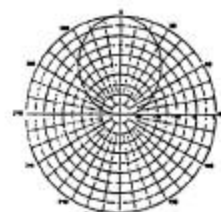
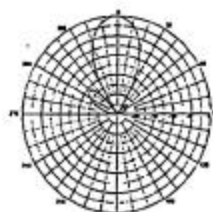
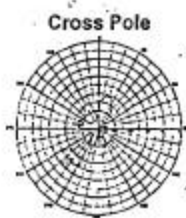
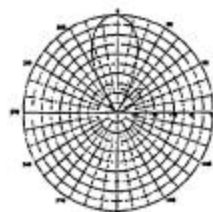
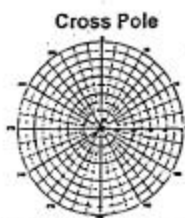
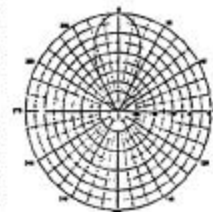
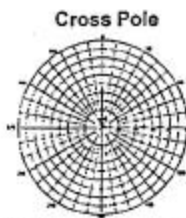
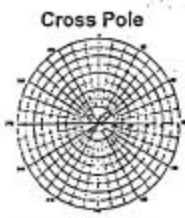
**MICROCEPTOR® ANTENNAS
MODELS QD AND DL**

SPECIFICATIONS**	DL-2400	QD-2400
Input Frequency***	2400 - 2500 GHz	2400 - 2500 GHz
Gain (Typical)	13 dBi	16 dBi
3 dB Beam Width (Typical)	38°	28°
Front to Back Ratio (Typical)	>40 dB	>40 dB
Cross Pole	>25 dB	>30 dB
VSWR	1.4:1	1.5:1
Impedance	50 OHMS	50 OHMS
Wind Loading		
@100 MPH	25.0 lbs.	25.0 lbs.
@140 MPH	49.4 lbs.	49.4 lbs.
Polarity	Dual	Dual
Size		
Inches	7.5 x 11	10.75 x 11
Millimeters	.30 x .43	.42 x .43
Weight		
Pound	1.4	2.0
Kilograms	.64	.91
Reflector Material	Stamped Aluminum	Stamped Aluminum
Backplate Bracket Material	Zinc-plated Steel	Zinc-plated Steel
Housing Material	High Impact ABS Plastic	High Impact ABS Plastic
Mounting	1 - 2 inch O.D. Pipe	1 - 2 inch O.D. Pipe
Micro-Mount (Optional Mounting) Material	Stainless Steel/Aluminum	Stainless Steel/Aluminum
EX-1000 Extension Tube		
Size	12 Inches	12 Inches
Material	Aluminum	Aluminum

*One or more Patents may apply: 5,229,782 • 5,523,768 • 5,402,138 • 5,394,115 • Patents Pending

**Specifications subject to change without notice.

***Consult factory for other frequencies including ENG and PCS.

DL-2400 @ 2.483 GHz
Vertical PolarityDL-2400 @ 2.483 GHz
Horizontal PolarityQD-2400 @ 2.483 GHz
Horizontal PolarityQD-2400 @ 2.483 GHz
Vertical Polarity

MANUFACTURED IN BURLINGTON, IOWA

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One 16 dBi Conifer flat panel Antenna

From Vendors Charts

<u>Degree</u>	<u>16dBi Panel</u>	<u>TEST 02</u>
0	15.5	
10	13.5	
20	8.5	
30	-2.5	
40	-10	
50	-4	
60	-4.5	
70	-6.5	
80	-8.5	
90	-11	
100	-14.5	
110	-18	
120	-14.5	
130	-14.5	
140	-19.5	
150	-22	
160	-22.5	
170	-21.5	
180	-19.5	
190	-21.5	
200	-22.5	
210	-22	
220	-19.5	
230	-14.5	
240	-14.5	
250	-18	
260	-14.5	
270	-11	
280	-8.5	
290	-6.5	
300	-4.5	
310	-4	
320	-10	
330	-2.5	
340	8.5	
350	13.5	

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Conifer 16dBi flat Panel Test 02

