



EXHIBIT 5

STAR NETWORKS AND DIRECTIONAL ANTENNA

FCC ID: NFX-RCC0001-00
RadioConnect Corporation

To:	Mr. Scott McCutchan Compatible Electronics, Inc.	July 10, 1998 Ref: 980702-AT-1 Total Pages: 1
From:	Arthur Tanaka	
Email:	atanaka@radioconnect.com	Voice: 310-338-3388 x 232
Project:	RadioWire	
Subject:	Replay to FCC Response for FCC ID: NFX-RCC0001-00	

Dear Scott,

Included with this fax is a Confidentiality Letter, Block Diagrams, copy of update to manual regarding RF safety considerations during installation, and responses to questions posed by the FCC in your letter dated June 30, 1998.

- 1) Confidentiality letter. See attached transmittal Exhibit 1, Ref: 980702-HMF-1 that lists the items to be held confidential.
- 2) Block diagram. Please see attached block diagrams in Exhibit 2. The Block Diagrams included with the application were in the middle of the set of schematics, and could have been mistaken for schematics.
- 3) Re-measure power Yes, we agree that the power can be re-measured. A power meter will be available for use on Monday.
- 4) Installation instructions See attached update to our user's manual "RF Safety Considerations for Installation of RadioWire Modem".
- 5) Star Networks

~~The RadioWire Modem (RWM) does not operate in the Point-Multipoint mode. It can only operate Point-To-Point. We provide the ability for users to configure and connect sets of point-to-point links to provide a star network. Users do this by connecting the Network Interface Modules of several RWMs at a central node. Each RWM at the central node communicates with only one remote RWM.~~

The antenna in question is a helical antenna operating in the axial mode yielding a directional gain of 14 dBi with a beamwidth of 35°. See attached antenna manufacturer's drawing (Tecom #703306). Also see attached table of antennas.
- 6) Restricted Band We will be testing a solution for this problem Saturday, July 11th.
- 7) Processing Gain On 7/6/98 we repeated the Process Gain test using 50 kHz steps across the entire passband of the RWM channel, using the method suggested in the FCC Public Notice #54797 dated July 12, 1995. See the Jamming Test Setup diagram. Also included is a copy of a table from Electronic Communications Handbook by Andrew F. Inglis, McGraw Hill © 1988 showing QPSK and OQPSK with the same (S/N)o. Also included is a graph showing the (S/N)o for QPSK as 13.8 dB for an error rate of 10⁻⁶ from Digital Line-Of-Sight Radio Links book by A.A.R. Townsend, Prentice Hall © 1988.

Best regards,


Arthur Tanaka

ENVIRONMENTAL:
 WIND SPEED: 125 MPH MAX
 TEMPERATURE: -40°C/-71°F
 HUMIDITY: 100% WITH CONDENSATION
 BLOWING RAIN: 40 MPH, 4 IN/HR
 SOLAR RADIATION: 350 BTU/FT² HR
 ICING (GLAZE): 0.25"

WIND LOADS AT 125 MPH:
 1. POWDER COAT, SEMI-GLOSS (20%)
 COLOR "WHITE TEXTURE"
 2. 2022

UNLESS OTHERWISE SPECIFIED

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REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPROVED
C		11.25 MAX WAS 12.00 62.14 WAS 61.50 BEAMWIDTH WAS 36°	7-1-97 Wan	
D		ADDED WEIGHT, REGRABIN ADDED ENVIRONMENT, ADDED NOTES 1 AND 2 ADDED FA-22 FT-LBS, ADDED M-4 FT-LBS ADDED MTG HARDWARE, CALLOUT	3-6-98 TSR	

DOCUMENT CONTROL
 MAR 12 1998

TECOM INDUSTRIES, INC.
 834 TOWNE DR. FORT DAVENPORT, CA 95311
 TECHNICAL DEPARTMENT CONTRACT NO. 0000000000000000

ANTENNA, HELIX TYPE 505079E

SPECIFICATIONS

FREQUENCY: 24-25 GHz
 POLARIZATION: RHCP OR LHCP
 VSWR: 1.5:1 MAX
 GAIN: 14dBic
 BEAMWIDTH: 36° NOM
 CONNECTOR: CUSTOM BLIND
 WEIGHT: MATE MALE PRESS-IN
 1.0 LB

CONTRACT NUMBER
 CONTRACTOR

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE: .010" ANGLES ± 0.5°
 MACHINED SURFACE ROUGHNESS 125-10
 DIMENSIONS ARE AFTER PLATING
 DIMENSIONS ARE AFTER PLATING
 CONCENTRIC WITH AXIS OF CENTRELINE
 INTERFERED PER ASME Y14.5M-1993

HOLE TOLERANCES:
 0.40 - 128 +0.010
 1.36 - 228 +0.010
 2.24 - 500 +0.010

APPROVAL
 MAIL ENR
 USED ON
 NEXT ASSY
 APPLICATION

SCALE 1/2" = 1'-0"

NOTES: UNLESS OTHERWISE SPECIFIED

RWM Antenna Options

Antenna Type	Model Right Hand Circular (White Cap)	Model Left Hand Circular (Blue Cap)	Size	Gain	Weight Ant. Only	Wind Load
Helical	250-0001-00	250-0001-01	2 in. dia, 15 in long 5 cm dia, 38 cm long	14 dBi	4.5 lbs. 2 kg	
Dish (Small)	250-0002-00	250-0002-01	24 in. dia, 15 in long 61 cm dia, 38 cm long	19 dBi	13 lbs 6 kg	

Table 2.4 - 1 RWM Antenna Options

Notes:

Electrical Characteristics on all antennas listed above:

Impedance 50 Ohms

VSWR 1.3:1

Return Loss 24 dB

Wind Survivability for all antennas listed above:

105 mph

175 km/hr

Helical +14 dBi Antenna P/N 250-0001-00

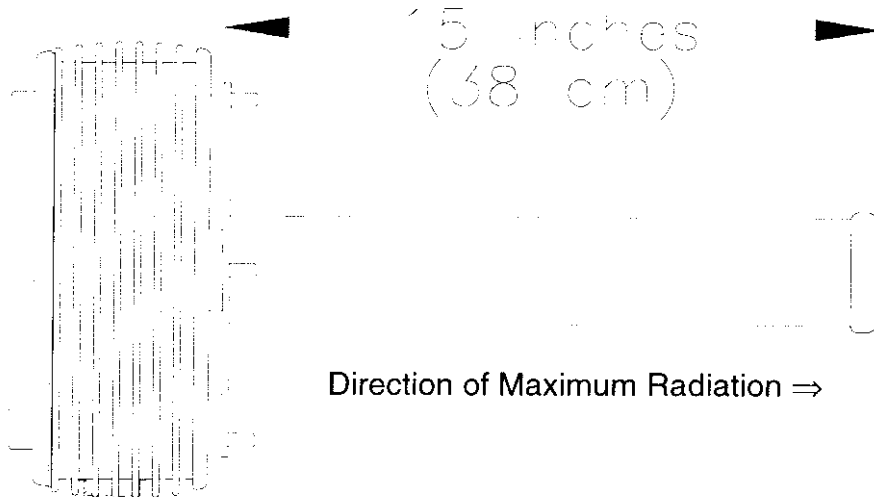


Figure 1 Dimensions:	Approx. 2.1 in [5.3 cm] diameter, 15 [38.1 cm] in length
Weight:	Less than 4.5 lbs. [2 kg.] (Antenna Only)
Electrical Characteristics:	50 ohm; 1:1.3 VSWR
Gain pattern:	14 dBi, 35 degree beam width, right hand or left hand circularly polarized.
Wind Survivability:	105 mph [175 km/h]
Wind Load	0.4 sq. ft. [0.04 sq. m]
Note:	P/N for Right Hand Circular Antenna 250-0001-00 (White Cap) P/N for Left Hand Circular Antenna 250-0001-01 (Blue Cap)

0.6 meter +20 dBi Dish Antenna P/N 250-0002-00

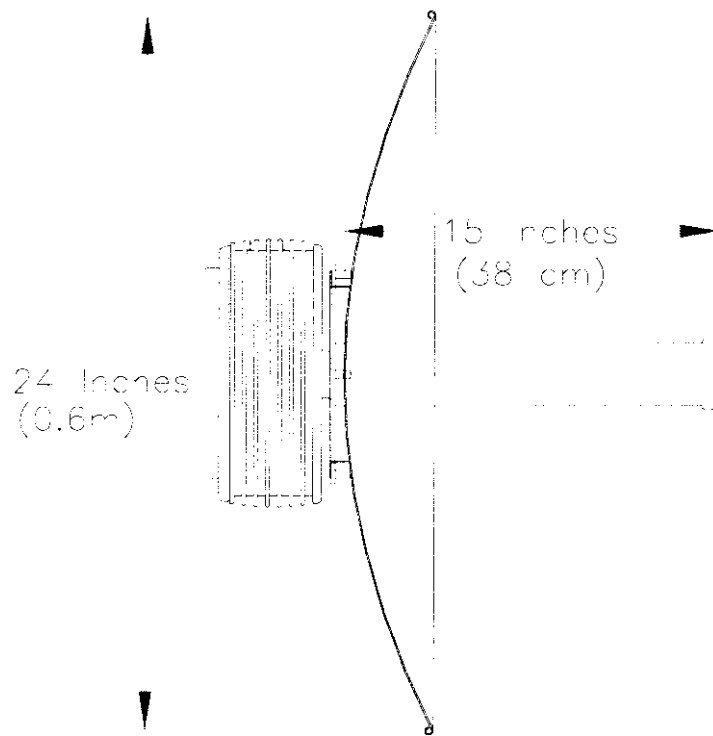


Figure 2 Dimensions:	Approx. 24 in [61 cm] diameter, 15 in [38.1 cm] length
Weight:	Less than 13.5 lbs. [6 kg.]
Electrical Characteristics:	50 ohm; 1:1.3 VSWR
Gain pattern:	19 dBi, 15 degree beam width, right hand or left hand circularly polarized.
Wind Survivability:	105 mph [175 km/h]
Wind Load	3.3 sq. ft. [0.3 sq. m]
Note:	P/N for Right Hand Circular Antenna 250-0002-00 (White Cap) P/N for Left Hand Circular Antenna 250-0002-01 (Blue Cap)