

Network Systems Organization

FCC Certification Report for the LA3021-100 WLAN PC Card Class II Permissive Change

EXHIBIT 4

RF EXPOSURE INFO



RF Exposure Antenna Summary

								Networ	k Systems Org	janization
F		1-100 W/I	AN PC Card	2 Mhns I	Proi C. Lo) Pwr		Sou	urce Based	
					1 10j. 0, L0			Mobile DC	C Factor: 1.00	00
0	output Power: 112	mW Cla	ss II Permissi	ve Chang	le			Portable DC	C Factor: 0.68	30
			М	obile A	ntennas	5				
Ant No	Model	Symbol P/N	Туре	Gain (dBi)	Cabel Loss (dB)	Pout (dBm)	MPE (cm)	TR Status	Devie	се Туре
10.	Rubber DuckTNC-RF	5 0-21900-029	Dipole	1.0	0.00	20.49	3.3	See # 3	Vehicl	e Mount
			Do	rtabla /	\ ntonno					
			P0		Antenna	IS				
Ant No	Model	Symbol P/N	Туре	Gain (dBi)	Cabel Loss (dB)	Pout (dBm)	EIRP (mW)	TR Status	Device Type	Tx Limited
01.	ХР	50-21900-024	Slot	0.0	0.58	19.92	66.7	Tested	Hand Held	
02.	2742	703624-2	F-Element	0.0	0.13	20.36	73.9	Tested	Hand Held	
04.	7242	10-35477-01	F-Element	0.0	0.13	20.36	73.9	Tested	Hand Held	
05.	Toko	50-21900-022	Puck	0.0	0.00	20.49	76.2	Tested	Hand Held	
07.	6846	10-32290-02	F-Element	0.0	0.34	20.15	70.4	See # 2	Hand Held	
08.	1742	703549-2	F-Element	0.0	0.11	20.38	74.2	See # 2	Hand Held	
09.	7546	10-38649-02	F-Element	0.0	0.31	20.18	70.9	See # 2	Hand Held	
			Body	y Worn	Antenr	nas				
Ant				Gain	Cabel	Pout	EIRP			Т

Ant No	Model	Symbol P/N	Туре	Gain (dBi)	Cabel Loss (dB)	Pout (dBm)	EIRP (mW)	TR Status	Device Type	Tx Limited
03.	Vocollect MMCX	50-21900-025	Dipole	2.0	0.25	20.24	114.0	Tested + SAR	Body Worn	
06.	Oniel MMCX	50-21900-031	Slot	0.0	0.37	20.12	70.0	See #1	Body Worn	

Antenna Gain listed without cable

TR Status refers to weither the antena was tested. If not refer to the directed antenna test data

Duty Cycle Factors are applied to MPE and EIRP

Tx Limited configurations are for low power versions of the radio. See the specific antenna exhibit for detail

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Antenna List by FCC ID

Network Systems Organization

FCC ID: H9PLA3021-100

WLAN PC Card, 2 Mbps, Proj. C, Lo Pwr

Output Power: 112 mW

Grant Date	Ant #:	Model	Symbol P/N	Mfg	Mfg P/N
3/15/00					
	01	Plane	50-21900-008	Tecom	505042C(48IN)
	02.A	Pipe Bomb 11"x4'	50-11901-048P	Cushcraft	S2403BHPS48RBN
	02.B	Pipe Bomb 11"x15'	50-11901-180P	Cushcraft	S2403BHPS180RB
	03	Rubber Duck	50-21900-007	Cushcraft	RBN2400SXR
	04	Yagi	ML-2499-YGA1-	Cushcraft	PC2415RBN240
	05	Patch	ML-2499-PTA1-	UK	S2406P72PRBN
	06	Panel	ML-2499-PNA1-	Tecom	ML-2499-PNA1-01
	07	End Cap "C"	10-20511-01	Tecom	822319
	08	4140	50-11900-001	Dorne & Margol	DR10-2
	09	4640	21-17486-01	AIL Systems Suf	21-17486-01
	10	2040	10-17577-01	Tecom	703117
	11	6140	10-35305-01	UK	
	12	6840	10-32290-01	UK	
	13	1040	10-32447-01	Tecom	
	14	HS Dipole	50-21900-030	Huber Suhner	9090.16.0001
	15	Parapolic Grid	ML-2499-PGA1-	Conifer	26T-2400
	16	Pipe Bomb 25"x20'	50-11902-240S	Cushcraft	S2406BHS240RBN
	17	Criticare BFA	50-21900-021	Tecom	703443-1
	18	Corner Patch	ML-2499-DLA1-	Tecom	505126C
	19	Ceiling Panel	ML-2499-SD24-	UK	
	20	6140 OBS	10-17577-02	Tecom	
	21	Mag Dipole	ML-2499-MGA1	Centurian	CAF95770
Applied For					
	01	XP	50-21900-024	Tecom	703611
	02	2742	703624-2	Tecom	703624-2
	03	Vocollect MMCX	50-21900-025	Austin Antenna	200215
	04	7242	10-35477-01	Tecom	
	05	Toko	50-21900-022	Toko	DAC2450CT1

FCC ID: H9PLA3021-100 WLAN PC Card, 2 Mbps, Proj. C, Lo Pwr

Output Power:	112 mW
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Grant Date	Ant #:	Model	Symbol P/N	Mfg	Mfg P/N
	06	Oniel MMCX	50-21900-031	Tecom	703620-2
	07	6846	10-32290-02	Tecom	
	08	1742	703549-2	Tecom	703549-2
	09	7546	10-38649-02	Tecom	
	10	Rubber DuckTNC-	50-21900-029	Cushcraft	RTN2400SXR



Amity BFA / Amity MMCX Antenna

The Amity antenna is 0 dBi omni-directional in azimuth plane. It is available with either a MuRatta BFA or MMCX connector. It is mounted internally on the top end of the terminal as shown in the attached photo. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is

Location	Hand Held Device
Pattern	Omni
Туре	Slot
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	703611-1, 2

included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bullitin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo







2740 / 2742 Antenna

The 2740 antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The 2740 uses a Murata Erie BFA connector while the 2742 uses the MMCX. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	703624-1, 703624-2

in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo



Vocollect



Vocollect Antenna

The **Vocollect** antenna is 2 dBi omnidirectional in azimuth plane. It is mounted internally as shown in the attached photo. The **Vocollect** uses either a Murata Erie BFA or a MMCX connector. In its use it would be within 5 cm of a persons body. It is used in portable devices. This antenna / device combination was SAR tested and results filed with a Class II permissive change for the H9PLA3020. The antenna was driven by 240 mW of transmitter power. This produces an EIRP limit of 380 mW.

Location	Reduciere device
Location	Body worn device
Pattern	Omni
Туре	Dipole
Max Gain	2 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	50-21900-025,
	50-21900-026

Note: This antanna / terminal configuration is only to be used with a transmitter that produces an EIRP of less than 380 mW. For an EIRP of more than 380 mW a SAR test must be performed.



Antenna Photo

Talkman Open – 2.4 GHz Symbol Radio Information

Vocollect Antenna Specifications

Туре:	Dipole
Gain:	2 dBi
Polarization:	Circular
Physical description:	Implemented on flat and rigid printed circuit board, internally mounted,
	parallel to the belt mounting loop.
Min distance from skin:	2.1 inches (1.70 inches to inside to belt loop plus 0.40 inches of padded
	belt)

Table 1: Bill of Materials- Talkman Open – Symbol Radio and Antenna

ltem	Qty	Vocollect Part #	Vendor Part #	Supplier	Description
1	1	656022		Austin Antenna	ANTENNA PCB
2	1	606012	90174601	Huber-Suhner	CABLE ASSY, ANTENNA

Image 1: 2.4 GHz Antenna PC Board



IMAGE 2: Beltworn Terminal - Drawing



IMAGE 3: Beltworn Terminal



3

IMAGE 4: Drawing of Antenna Placement Inside Unit.

The antenna is mounted in the plane parallel to the belt loop and waist, 1.70 inches away from the belt loop used to connect the terminal to the padded mounting belt. Including the belt thickness, the radio is at least 2.1 inches distant from the skin.



IMAGE 5: The unit mounts on a padded belt ¹/₂" thick.

The unit is connected to the belt be a secondary strap secured to the belt. The full width of the main padded belt remains between the terminal and user's body.





7240 / 7242 Antenna

The **7240** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **7240** uses the MuRatta BFA connector. The **7242** is identical to the **7240** but uses the MMCX connector. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	10-35475-01,
	10-35477-01

in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo



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	DRAWN	rovals JKW	DATE 05-05-9	9	S	YMBOL C Hol	TECH	NOLOG	IES	INC	
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		ROVALS JKW A. SAVONA .CONNELLY	DATE 05-05-99 05-05-99 05-05-99	9	S	YMBOL Hol	TECH the Symbol tsville	NOLOG • Pla • NY 11 • 0	1ES	INC	•
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1			INITIAL RELEASE PER PPD# 51859		JK₩		11-03-99
2			REVISED PER PPD #52781 1) REVISED PER TECOM'S DWG		мв		12/8/99
3			REVISED PER PPD #53240 1) DIM .45 WAS .42 2) ADDED NOTE 5		мв		12/29/99

	DESCRIPTION										REMA	RKS/REF. SYMBOL	
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ENS	SIONS ARE IN APPROVALS DATE					SYMBOL	TECH	NOLOG	IES INC.				
ESS DIF	OTHERWI IED	SE			DRAWN	JKW	11-03-99	Bohemia, New York					
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\$ *	/- 0*30/	FRACI	110NS +/-	1/64	MFG, ENG	6						. 200	
RIA	SEE	N	OTE	1	PRODUCT			size D	DWG. NO.	10-	3547	7-01	REV
SH:	SEE	E N	NOTE	2	ANALYST	L.DOBKOWSKI	12-29-99	SCALE :	2:1	SOLID MOD		SHEET 1 OF	1
					2						1		

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Toko Antenna

The Toko antenna is 0 dBi omni-directional in azimuth plane. It is mounted as a through hole device directly on the printed circuit board of a hand held device. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of

Location	Hand Held Device
Pattern	Omni
Туре	Dielectric Puck
Max Gain	2.15 dBi
Physical	See Attached Dwg.
Cable	none
Symbol P/N	50-21900-022

safety issues as required by OET Bullitin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Installed Antenna Photo







Terminal Use Photo

RªTOKO

ANTENNA ELEMENT FOR 2.4 GHz

DESCRIPTION

The DAC Series is a miniature dielectric antenna element for 2.4 GHz wireless LAN systems. This antenna has vertical polarization characteristics. TOKO's proprietary ceramic dielectric material provides excellent stability and sensitivity. It is mountable in Type II extended PCMCIA cards.

FEATURES

- Vertical Polarization reception
- Low profile (6.5mm max)
- Omni-directional in azimuth
- Low interference design
- Central feeding point terminal
- Wide bandwidth
- Light weight



SPECIFICATIONS

Part Number	DAC2450CT1
Center Frequency	2450 MHz
Receiving Bandwidth	±50 MHz min.
Impedance	50Ω
Peak Gain	2.15 dBi (0dBi typ.) max.
Operating Temperature	-10 ~ +60° C
Storage Temperature	-20 ~ +85° C
Weight	4g

DIMENSIONS DAC SERIES



Unit: mm

Mounted with Ground Plane



DAC Series

TYPICAL CHARACTERISTICS



DIRECTIVITY CHART



Vertical Pattern





DAC Series

INTERFERENCE COMPARISON OF DAC VS. PLANAR INVERTED FANTENNA



DAC Series

TYPICAL APPLICATION MOUNTED IN PCMCIA TYPE II EXTENDED CARD



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Oneil BFA / Oneil MMCX Antenna

The **Oneil** antenna is 0 dBi omnidirectional in azimuth plane. It is available with eirher a MuRatta BFA or MMCX connector. It is mounted as an internal antenna on the O'Neil MicroFlash series of portable belt worn printers. In its use it would be within 5 cm of a users body. It is used in portable devices.

Location	Body worn
Pattern	Omni
Туре	Slot
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75 or RG-178
Symbol P/N	50-21900-023
	50-21900-031
EIRP	See Summary Tbl

Note: This antenna is only to be used with a transmitter that produces an EIRP of less than 200 mW. For an EIRP of more than 200 mW a SAR test must be performed.



Antenna Installation Photo



Oneil



Device use Photograph.







6840/ 6846 Antenna

The **6840** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **6840** uses a Murata Erie BFA connector while the **6846** uses the MMCX. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	10-32290-01, -02

information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo



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REVISIONS				
DESCRIPTION	E.C.	BY	APVD.	DATE
ED PER EDR 39215	\sim	LM		
D PER ECN	4418	RM		
37 WAS 2.30	E4874	LM		
DIM 2X.18 PER EC	E5856	MB		

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REMARKS/REF. SYMBOL TE SYMBOL TECHNOLOGIES INC. Bohemia, New York ANTENNA:2.4 GHZ SIZE DWG. NO. 10-32290-01 D SCALE: FULL SOLID MODEL SHEET 1 OF 1	А



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1740 / 1742 Antenna

The **1740** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The **1742** uses the MMCX connector instead of the MuRata BFA. The following RF exposure information is included in a

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	703549-1

prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo





7540 / 7546 Antenna

The **7540** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **7540** uses the MuRatta BFA connector while the **7546** is identical to the **7540** but uses the MMCX connector. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	MXYH75, RG-178
Symbol P/N	10-38649-01, -02

body. It is used in portable devices. The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C. for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Installed in Device





Terminal Use Photo



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	REVISIONS						
	DESCRIPTION		E.C.	BY	APVD.	DATE	
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Rubber Duck Antenna

The **Rubber Duck** antenna is 1 dBi omnidirectional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The **Rubber Duck** uses a BNC-RP connector while the **Rubber Duck TNC** uses the TNC-RP. In its use it would be within 20 cm of a persons hand but more than 20 cm from the users body. It is used in portable devices. The following RF exposure information is

Location	Hand Held Device
Pattern	Omni
Туре	Dipole
Max Gain	1 dBi
Physical	See attached dwg
Cable	none
Symbol P/N	ML-2499-APA1-00
	ML-2499-APA2-00

included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

"Important Note: To comply with FCC RF exposure requirements, this hand-held device is approved for operation in a user's hand when there is 20 cm or more between the antenna and everyone's body."



Antenna Photograph



Rubber Duck



1380

Portable Device Photo



Mobile Device Photo

REV DESCRIPTION DA	
	ATE APPVL
	/96 M.W.
B REMOVE CONFLICTING DIMENSION PER EC E3485 \\\\\\ Image: Construction of the second seco	198 Eline
General Notes:	
THE FOLLOWING STI SPECIFICATIONS APPLY:	
50-04100-013: Specification For Supplier Packaging And Labeling R	equirements
EN-L 0983-01 General Component Requirements	
Symbol This document and specification contained herein must not be under the produced, or otherwise dealt with nor its contents communicated except in accordance with written instructions received from Symbol	Ised, copied, ed to others nbol
Symbol * This document and specification contained herein must not be ureproduced, or otherwise dealt with nor its contents communicate except in accordance with written instructions received from Syntechnologies, Inc. APPROVAL NAME DATE	ISEd, copied, ed to others nbol
Symbol This document and specification contained herein must not be u reproduced, or otherwise dealt with nor its contents communicate except in accordance with written instructions received from Syn Technologies, Inc. APPROVAL NAME DATE COMPONENT SPECIFIC DRAWN D.FORTIER 7/ 1/96 1/96	Ised, copied, ed to others nbol
Symbol	Ised, copied, ed to others nbol ICATION 2.4-2.5GHz
Image: Symbol This document and specification contained herein must not be ureproduced, or otherwise dealt with nor its contents communicate except in accordance with written instructions received from Syntechnologies, Inc. APPROVAL NAME DATE COMPONENT SPECIFIC COMPONENT SPECIFIC CHECKED D.FORTIER 7/7 1/96 ANTENNA:RADIO,FLEX, *REVERSE POLARITY OHM, ARTICULATE	ISED, COPIED, ed to others nbol ICATION 2.4-2.5GHz Y BNC,50 E JOINT

