

# Antenna List by FCC ID

## **Network Systems Organization**

FCC ID: **H9PLA4111** WLAN PC Card, 11 Mbps, Trilogy

Output Power: 60 mW

Output I Ow	<u> </u>	DO TITVV			
Grant Date	Ant #:	Model	Symbol P/N	Mfg	Mfg P/N
2/18/00					
	01	Plane	50-21900-008	Tecom	505042C(48IN)
	02	Pipe Bomb 11"x4'	50-11901-048P	Cushcraft	S2403BHPS48RBN
	02.1	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
	09	4640 Toroid	21-17486-02	AIL Systems Suf	21-17486-02
	10	2040	10-17577-01	Tecom	703117
	11	6140	10-35305-01	UK	
	12	6840	10-32290-01	UK	
	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	
	X	Trilogy AP	21-20667-01	C&M Wauregan	
	Z	End Cap "C"	10-20511-01	Tecom	822319
Applied For					
	01	7546	10-38649-02	Tecom	
	02	2742	703624-2	Tecom	703624-2
	03	XP	50-21900-024	Tecom	703611
	04	7242	10-35477-01	Tecom	
	05	Toko	50-21900-022	Toko	DAC2450CT1
	06	Vocollect MMCX	50-21900-025	Austin Antenna	200215
	07	6846	10-32290-02	Tecom	
	08	7546D	10-40948-01	Tecom	703634

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FCC ID: **H9PLA4111** WLAN PC Card, 11 Mbps, Trilogy

Output Power: 60 mW

Grant Date Ant #:	Model	Symbol P/N	Mfg	Mfg P/N
09	1742	703549-2	Tecom	703549-2
10	Oniel MMCX	50-21900-031	Tecom	703620-2
11	6846D	10-41003-01	Tecom	703645
12	6146D	10-41361-01	Tecom	703652
13	3146BD	10-41359-01	Symbol	10-41359-01
14	1046	10-32447-02	Tecom	703385-2
15	1046DP	10-41370-01	AeroAntenna	AT2400-4A

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FCC ID: H9PLA4111

12.

13.

6146D

3146BD

# RF Exposure Antenna Summary

**Network Systems Organization** 

Hand Held

Hand Held

Source Based

Mobile DC Factor: 1.000
Portable DC Factor: 1.000

WLAN PC Card, 11 Mbps, Trilogy

Output Power: 60 mW Class II Permissive Change

10-41361-01

10-41359-01

F-Element

F-Element

	Portable Antennas									
Ant No	Model	Symbol P/N	Туре	Gain (dBi)	Cabel Loss (dB)	Pout (dBm)	EIRP (mW)	TR Status	Device Type	Tx Limited
01.	7546	10-38649-02	F-Element	0.0	0.31	17.47	55.9	Tested	Hand Held	
02.	2742	703624-2	F-Element	0.0	0.13	17.65	58.2	Tested	Hand Held	
03.	XP	50-21900-024	Slot	0.0	0.58	17.21	52.5	Tested	Hand Held	
04.	7242	10-35477-01	F-Element	0.0	0.13	17.65	58.2	Tested	Hand Held	
05.	Toko	50-21900-022	Puck	0.0	0.00	17.78	60.0	Tested	Hand Held	
07.	6846	10-32290-02	F-Element	0.0	0.34	17.44	55.5	See # 2	Hand Held	
08.	7546D	10-40948-01	F-Element	0.0	0.22	17.57	57.1	See # 2	Hand Held	
09.	1742	703549-2	F-Element	0.0	0.11	17.67	58.4	See # 2	Hand Held	
11.	6846D	10-41003-01	Slot	0.0	0.37	17.41	55.1	See # 2	Hand Held	

	Body Worn Antennas									
Ant No	Model	Symbol P/N	Туре	Gain (dBi)	Cabel Loss (dB)	Pout (dBm)	EIRP (mW)	TR Status	Device Type	Tx Limited
06.	Vocollect MMCX	50-21900-025	Dipole	2.0	0.25	17.53	89.8	Tested + SAR	Body Worn	
10.	Oniel MMCX	50-21900-031	Slot	0.0	0.37	17.41	55.1	See # 3	Body Worn	
14.	1046	10-32447-02	F-Element	0.0	0.15	17.63	58.0	See # 2 + SAR	Wrist Worn	
15.	1046DP	10-41370-01	Dipole	2.0	0.20	17.58	90.9	See # 6	Wrist Worn	

0.0

0.0

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

0.23

0.09

17.55

17.69

56.9

See # 2

58.7 See # 2

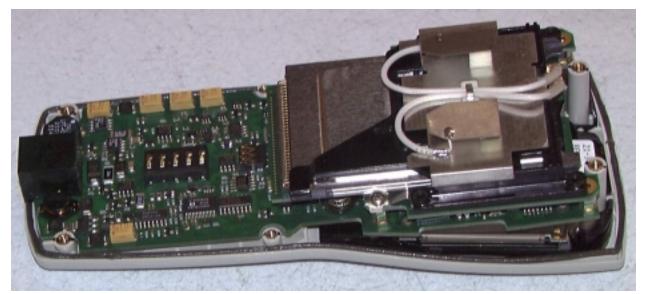
#### 6146D Antenna

The 6146D antenna is 0 dBi omnidirectional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The 6146D uses a 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 in a prominent place in the device's user manual

T		
Hand Held Device		
Omni		
F-Element		
0 dBi		
See attached dwg		
RG-178		
10-41361-01		
See Summary Tbl		

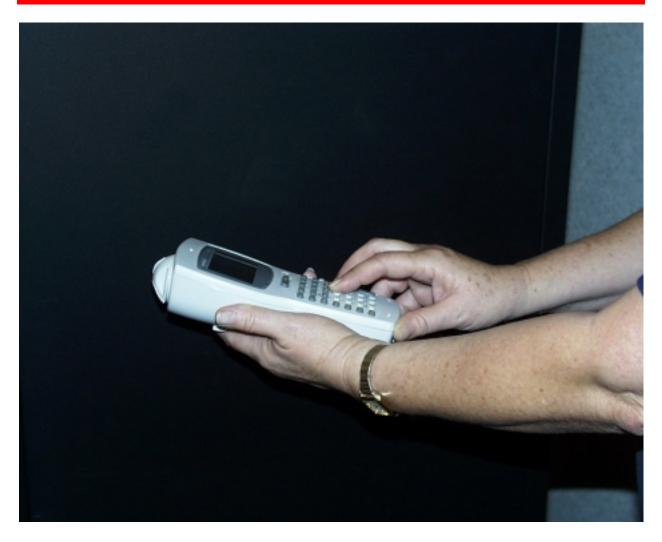
to inform the user of safety issues as required by OET Bulletin 65, Supplement C for EIRP greater than 200 mW.

"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 the user's body."

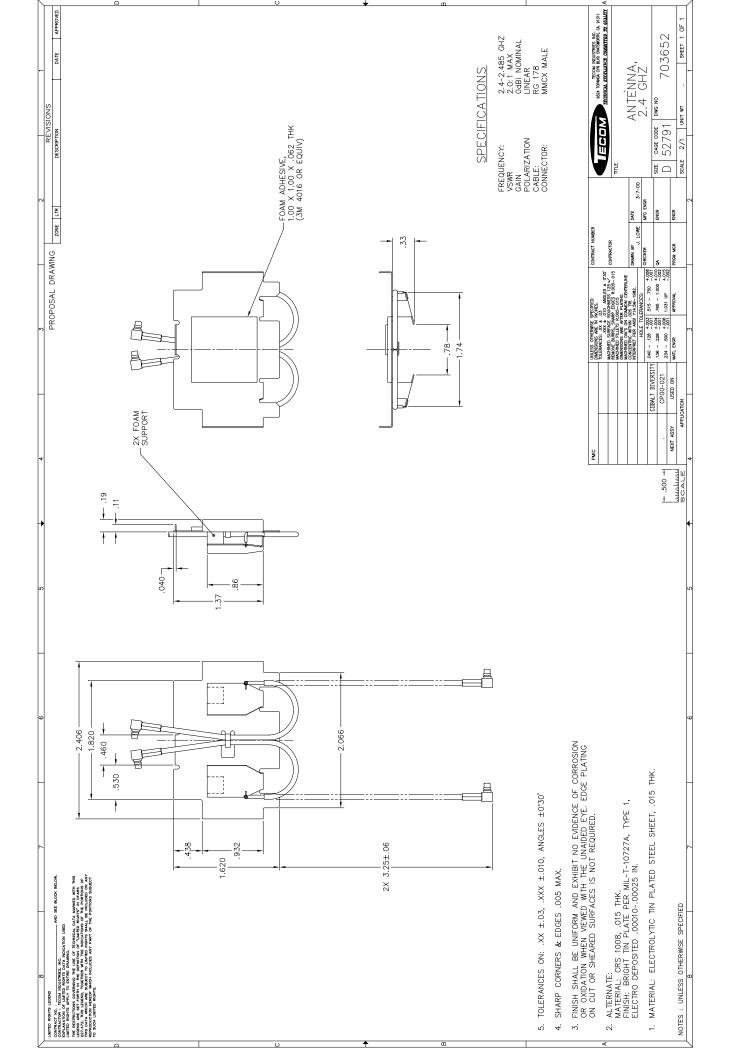


Antenna Installed in Device





Terminal Use Photo



#### 3146D Antenna

The 3146D antenna is 0 dBi omnidirectional in azimuth plane. It is mounted internally on the top end of the terminal as shown in the attached photo. The 3146D uses a 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 in a prominent place in the device's user manual

Location	Hand Held Device
Pattern	Omni
Туре	F-Element
Max Gain	0 dBi
Physical	See attached dwg
Cable	RG-178
Symbol P/N	10-41359-01
EIRP	See Summary Tbl

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 the user's body."



Antenna Installed in Device



Terminal Use Photo

## 1040, 1046 Antenna

The **1040** antenna is 0 dBi omni-directional in azimuth plane. It is mounted internally as shown in the attached photo. The **1040** uses the Murata Erie BFA and the **1046** 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

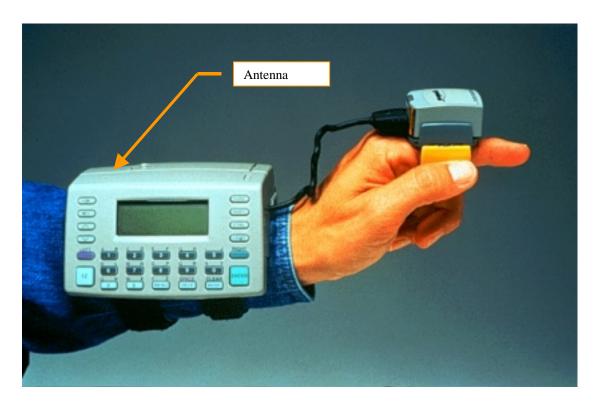
Location	Body worn device		
Pattern	Omni		
Туре	F-Element		
Max Gain	0 dBi		
Physical	See attached dwg		
Cable	MXYH75, RG-178		
Symbol P/N	10-32447-01,		
	10-32447-02		

the H9PLA2400. driven by 500 mW of transmitter power.

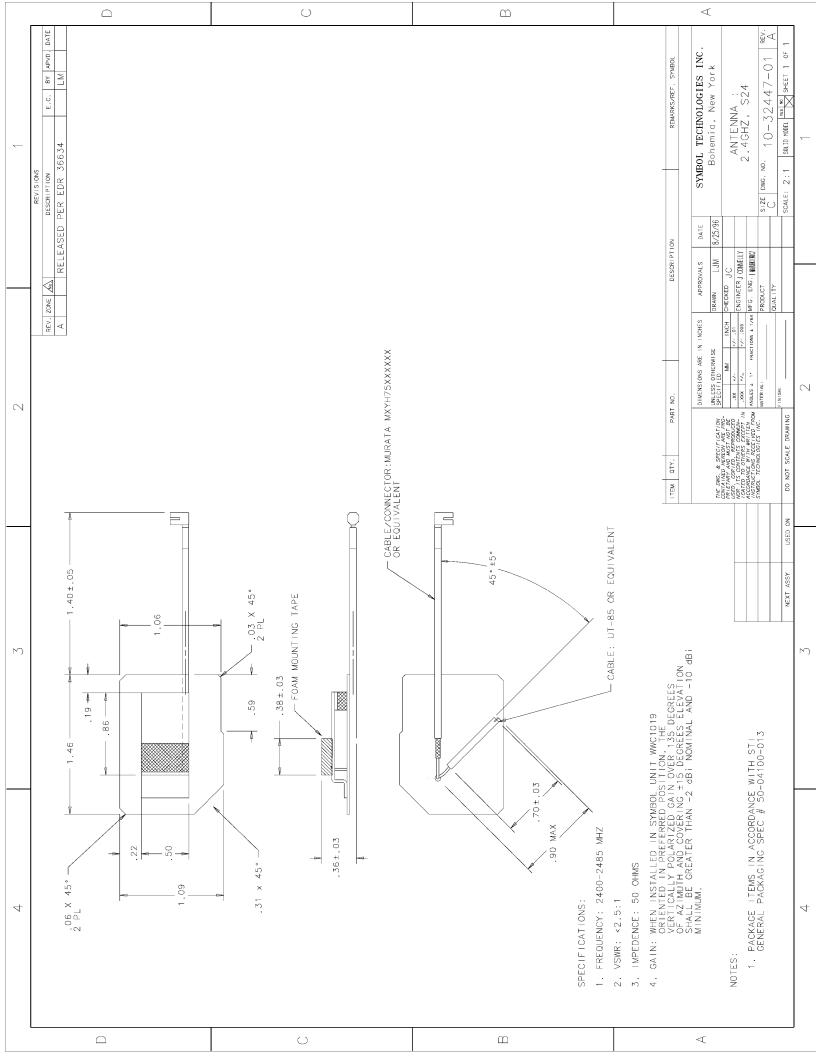
Note: This antanna / terminal configuration is only to be used with a transmitter that produces an EIRP of less than 500 mW. For an EIRP of more than 500 mW a SAR test must be performed.

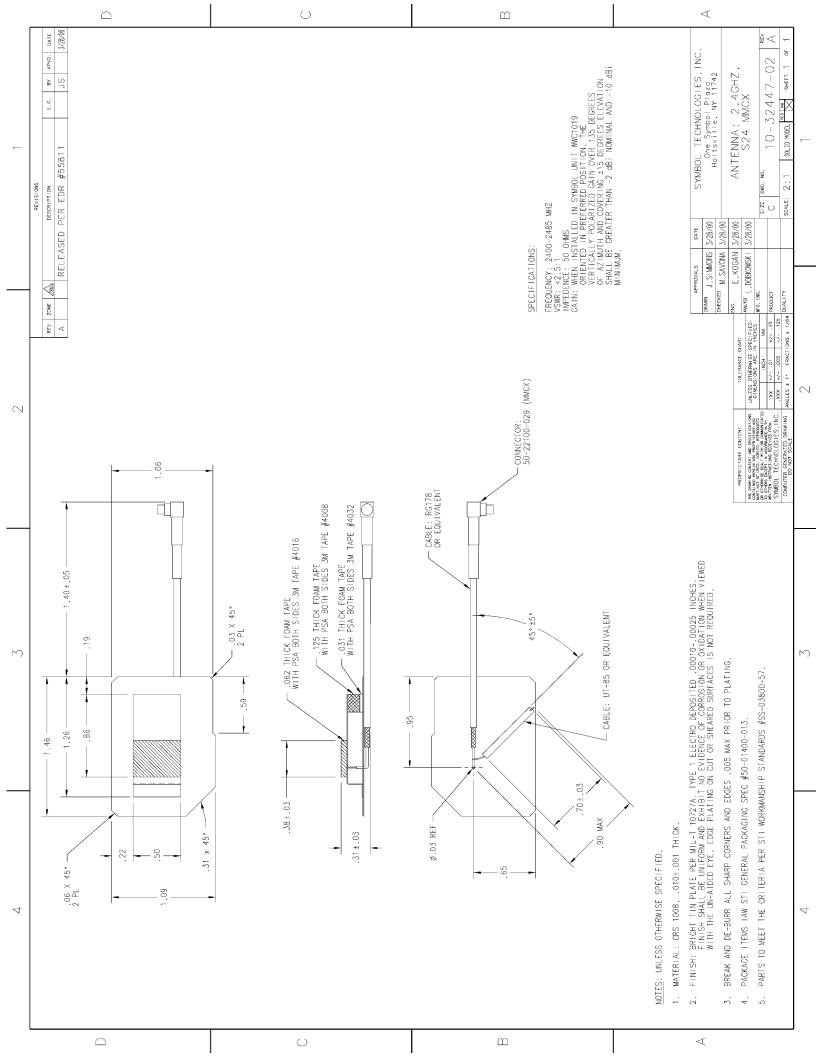


Antenna Photo



Terminal Use Photo



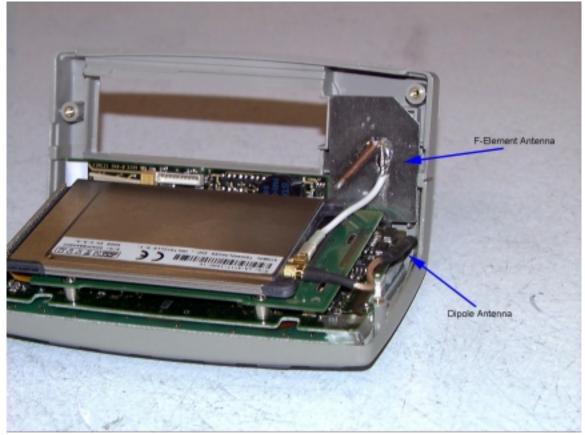


#### 1046DP Antenna

The **1046DP** antenna is 2 dBi omni-directional in azimuth plane. It is mounted internally as shown in the attached photo. The **1046DP** uses 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 has not been SAR tested.

Location	Wrist worn device			
Pattern	Omni			
Туре	Dipole			
Max Gain	2 dBi			
Physical	See attached dwg			
Cable	RG-178			
Symbol P/N	10-41370.01			

Note: This antanna / terminal configuration 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 Photo



Antenna Use Photo

