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RF Exposure Evaluation Report

APPLICANT	FIPLEX COMMUNICATIONS INC.
	7331 N.W. 54TH STREET MIAMI FL 33166
FCC ID	P3TDHS40-HG-SCH-2
MODEL NUMBER	DHS40-HG-SCH-2
PRODUCT DESCRIPTION	PS800 SINGLE CARRIER AMPLIFIER
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	Sid Sanders

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and meets the requirements.

GENERAL REMARKS

Attestations

This equipment has been evaluated in accordance with the standards identified in this report. To the best of my knowledge and belief, these evaluations were performed using the procedures described in this report.

I attest that the necessary evaluations were made, under my supervision, at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669

Authorized Signatory Name: 

Sid Sanders, Engineer

Date: 7/20/2017

RF Exposure Requirements

General information

Device type: PS800 SINGLE CARRIER AMPLIFIER

Antenna

The manufacturer does not specify an antenna, but a typical antenna has a gain of 0 dBi.

Configuration	Antenna p/n	Type	Max. Gain (dBi)
Fixed mounted	Any		0

MPE Calculation:

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1.

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Minimum Separation Distance for Mobile or Fixed Devices
General Population/Uncontrolled Exposure

Insert values in yellow highlighted boxes to determine Minimum Separation Distance

Max Power	10	W	*equals*	Max Power	10000	mW
Duty Cycle	100	%	*equals*	Duty Factor	1	numeric
Antenna Gain	0	dBi	*equals*	Gain numeric	1	numeric
Coax Loss	0	dB		Gain - Coax Los	1	numeric
Power Density	0.6	mW/cm^2				

Enter power Density from the chart to the right

Frequency 869 MHz

Rule Part 1.1310, Table 1 (B)

Frequency rang	Power den	Enter this value
MHz	**mW/cm^2**	**mW/cm^2**
0.3-1.34	100	**100**
1.34-30	$180/f^2$	**0.0**
30-300	0.2	**0.2**
300-1,500	f/1500	**0.6**
1,500-100,000	1	**1**

f = frequency in MHz

Minimum Separation Distance	**36 cm**	**0.36 m**

Minimum Seperation in Inches 14.32695 Inches

Applicant: FIPLEX COMMUNICATIONS INC.
FCC ID: P3TDHS40-HG-SCH-2
Report: F\FIPLEX_P3T\1087CUT17\1087AUT17RF Exp MPE Rpt Rev.docx