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## RF Exposure Evaluation Report

<b>APPLICANT</b>	FIPLEX COMMUNICATIONS INC.
	7331 N.W. 54TH STREET MIAMI FL 33166 USA
<b>FCC ID</b>	P3TDHS37-R
<b>IC</b>	8986A-DHS37R
<b>MODEL NUMBER</b>	DHS37-R
<b>PRODUCT DESCRIPTION</b>	PS800 DIGITAL REMOTE UNIT
<b>STANDARD APPLIED</b>	CFR 47 Part 2.1091
<b>PREPARED BY</b>	FRANKLIN ROSE

We, TIMCO ENGINEERING, INC. would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and ISSED RSS-102 and meets the requirements.

The attached report shall not be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

## 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:

Franklin Rose, Engineering Project Manager

**Date: 11/13/2017**

Applicant: FIPLEX COMMUNICATIONS INC.

FCC ID: P3TDHS37R

IC: 8986A-DHS37R

Report: V:\F\FIPLEX\_P3T\1782AUT17\1782AUT17RF EXP MPE RPT REV.DOCX

## RF Exposure Requirements

### General information

Device type: PS800 DIGITAL REMOTE UNIT

### 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	omni	0

### MPE Calculation:

The minimum separation distance is calculated as follows:

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

The limit for general uncontrolled exposure environment is shown in FCC rule Part 1.11310, Table 1 and ISED RSS-102 § 4 Table 3.

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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	<input type="text" value="5"/>	W	<i>equals</i>	Max Power	<input type="text" value="5000"/>	mW
Duty Cycle	<input type="text" value="100"/>	%	<i>equals</i>	Duty Factor	<input type="text" value="1"/>	numeric
Antenna Gain	<input type="text" value="0"/>	dBi	<i>equals</i>	Gain numeric	<input type="text" value="1"/>	numeric
Coax Loss	<input type="text" value="0"/>	dB		Gain - Coax Los	<input type="text" value="1"/>	numeric
Power Density	<input type="text" value="0.6"/>	mW/cm <sup>2</sup>				
Frequency	<input type="text" value="869"/>	MHz				

**Enter power Density from the chart to the right**

**Rule Part 1.1310, Table 1 (B)**

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

f = frequency in MHz

<b>Minimum Separation Distance</b>	<b>26 cm</b>	<b>0.26 m</b>
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Minimum Separation in Inches      10.13068 Inches