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## RF Exposure Evaluation Report

<b>APPLICANT</b>	FIPLEX COMMUNICATIONS INC.
	7331 N.W. 54TH STREET MIAMI FL 33166
<b>FCC ID</b>	P3TDH440-HG-SCH-3
<b>MODEL NUMBER</b>	DH440-HG-SCH-3
<b>PRODUCT DESCRIPTION</b>	UHF SINGLE CARRIER AMPLIFIER
<b>STANDARD APPLIED</b>	CFR 47 Part 2.1091
<b>PREPARED BY</b>	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.

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:**



Sid Sanders, Engineer

**Date: 7/20/2017**

## RF Exposure Requirements

### General information

Device type: UHF 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:

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

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

**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	<b>10</b> W	<i>equals</i>	Max Power	10000	mW
Duty Cycle	<b>100</b> %	<i>equals</i>	Duty Factor	<input type="text" value="1"/>	numeric
Antenna Gain	<b>0</b> dBi	<i>equals</i>	Gain numeric	<input type="text" value="1"/>	numeric
Coax Loss	<b>0</b> dB		Gain - Coax Los	<input type="text" value="1"/>	numeric
Power Density	<b>0.3</b> mW/cm <sup>2</sup>				
Frequency	<b>511</b> MHz				

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

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

Frequency rang MHz	Power den mW/cm <sup>2</sup>	Enter this value 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>0.3</b>
1,500-100,000	1	<b>1</b>

f = frequency in MHz

<b>Minimum Separation Distance</b>	<b>52 cm</b>	<b>0.52 m</b>
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Minimum Separation in Inches      20.26137 Inches