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RF Exposure Evaluation Report

APPLICANT	FIPLEX COMMUNICATIONS INC.
	7331 N.W. 54TH STREET MIAMI FL 33166 USA
FCC ID	P3TDHS00-M
IC	8986A-DHS00M
MODEL NUMBER	DHS00-M
PRODUCT DESCRIPTION	PS800 DIGITAL MASTER UNIT
STANDARD APPLIED	CFR 47 Part 2.1091
PREPARED BY	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 ISED 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.

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Report: V:\F\FIPLEX_P3T\1783AUT17\1783AUT17RF 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	0.26	W	<i>equals</i>	Max Power	260	mW
Duty Cycle	100	%	<i>equals</i>	Duty Factor	1	numeric
Antenna Gain	13	dB	<i>equals</i>	Gain numeric	19.95262	numeric
Coax Loss	0	dB		Gain - Coax Loss	19.95262	numeric
Power Density	0.5	mW/cm ²				
Frequency	824	MHz				

Enter power Density from the chart to the right

Rule Part 1.1310, Table 1 (B)

Frequency range MHz	Power den mW/cm ²	Enter this value 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	0.5
1,500-100,000	1	1

f = frequency in MHz

Minimum Separation Distance	29 cm	0.29 m
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Minimum Separation in Inches 11.30397 Inches

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