

Device Summary for FCC Approval

Project Number: 776

Reference: device summary for fcc approval.docx

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Table of Contents

Revision Page	iii
Rev	iii
Introduction	
Reference Documents	1
List of Abbreviations	
Devices Summary	
PAS (Personal Alert Sentry)	1
Hub	
IREP (Indoor Repeater)	1
OREP (Outdoor Repeater)	



REVISION PAGE

Rev	Description Original Release	Section
-	Original Release	



INTRODUCTION

This document provides the details necessary for FCC approval on all devices related to project 776.

REFERENCE DOCUMENTS

LIST OF ABBREVIATIONS

PAS - Personal Alert Sentry

DEVICES SUMMARY

PAS (Personal Alert Sentry)

Proposed Number of on-board shields (2)

On-board crystal frequencies: 32.768 kHz

Crystal frequencies encapsulated by pre-FCC approved RF module: 26 MHz

On-board GPS module, pre-FCC approved and shielded also, but internal frequencies unknown

RF Module is pre-FCC approved. Our custom firmware controls frequency hopping and dwell time. Uses 902-928 MHz band and data rate is 1.2-4.8kbps, 30dBm output power (1W).

RF Antenna: embedded ceramic chip antenna GPS Antenna: embedded ceramic chip antenna

Hub

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RF Antenna: External, flexible ½ wave center fed coaxial dipole with articulated knuckle GPS Antenna: internal active patch antenna 1-stage 15dB SMT mount

IREP (Indoor Repeater)

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RF Module is pre-FCC approved. Our custom firmware controls frequency hopping and dwell time. Uses 902-928 MHz band and data rate is 1.2-4.8kbps, 30dBm output power (1W).

RF Antenna: External, ¼ wavelength, unity gain, portable "stub" antenna, SMA male connector

GPS Antenna: internal active patch antenna 1-stage 15dB SMT mount

OREP (Outdoor Repeater)

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On-board crystal frequencies: 32.768 kHz

Crystal frequencies encapsulated by pre-FCC approved RF module: 26 MHz

On-board GPS module, pre-FCC approved and shielded also, but internal frequencies unknown

RF Module is pre-FCC approved. Our custom firmware controls frequency hopping and dwell time. Uses 902-928 MHz band and data rate is 1.2-4.8kbps, 30dBm output power (1W).

RF Antenna: External, Lairdtech Unity Gain (0dB) FG9020 (external) GPS Antenna: internal active patch antenna 1-stage 15dB SMT mount