

TriMark Corporation

Generation 3 EAsk System

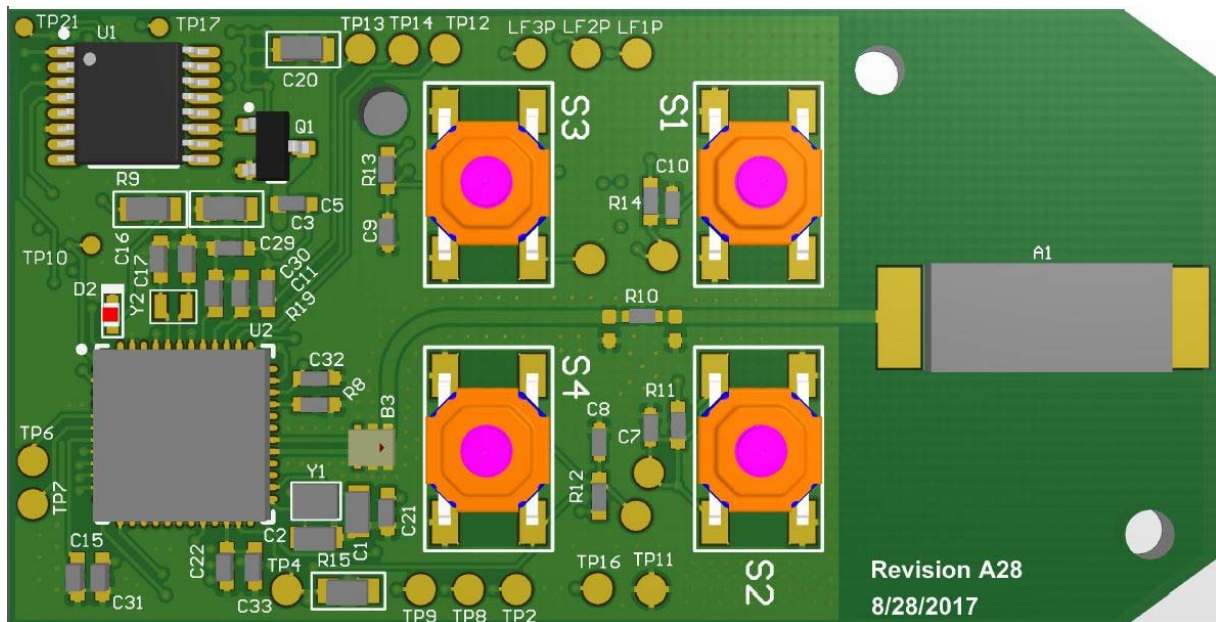
FCC general information doc

Contents

36163-02	1
General Specifications.....	1
FOB FCC version	1
Wiring Diagram	1
Block Diagram	1
36160 IO Module	2
Pin Layout.....	2
General Specifications.....	2
IO Module FCC version.....	3
Wiring diagram.....	3

Model No. : 38848-01 , 38846-01 , 38846-02 , 38846-03 , 38846-04
38847-01 , 38847-02 , 38847-03 , 38847-04 , 36160-01

36163-02



General Specifications

All button presses Create a 433MHz broadcast
There is a Passive 3D 125 KHz receiver

Power	3V battery
Current (quiescent)	15-30uA
Active (rms)	18mA

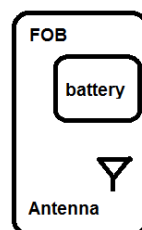
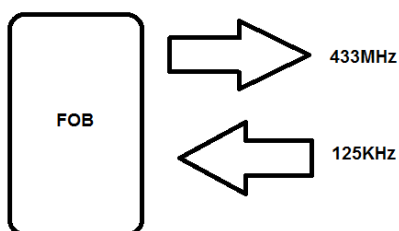
FOB FCC version

FCC version will go into transmit mode when button 2 or 4 is pressed, and will exit transmit mode on another press. This is to conserve battery.

Wiring Diagram

Insert the DL2032 battery into the holder of the PCB

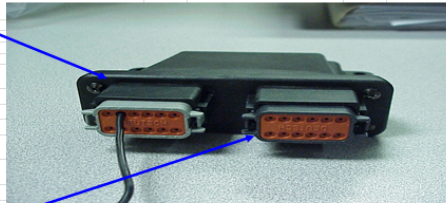
Block Diagram



36160 IO Module

Pin Layout

Gray Left Header											
1	LF ANT125 IN 1	2	GND	3	CAN_H	4	CAN_L	5	RELAY_20A_1	6	RELAY_20A_2
12	LF ANT125_OUT 1	11	PROG IN 1	10	PROG OUT 1	9	PROG OUT 2	8	PROG IN 3	7	Power



Black Right Header											
1	HF_433MHZ_ANT	2	GND	3	LF ANT125 IN 2	4	LF ANT125 IN 3	5	GND	6	PROG IN 4
12	LF ANT125_OUT 2	11	LF ANT125_OUT 3	10	PROG_OUT_3	9	PROG_IN_2	8	PROG_OUT_4	7	Power

Key			
Inputs, active to ground			
Low current 500 mA output			
High current ~ 5 A output			

General Specifications

All actives are presently set to 12V

Input Activated	Reaction from Hardware Tests
PROG_IN_1	PROG_OUT_1 activates while PROG_IN_1 is active.
PROG_IN_2	PROG_OUT_2 activates while PROG_IN_2 is active.
PROG_IN_3	PROG_OUT_3 activates while PROG_IN_3 is active.
PROG_IN_4	PROG_OUT_4 activates while PROG_IN_4 is active.
Fob Button 1	PROG_OUT_1 activates while fob button 1 is pressed.
Fob Button 2	PROG_OUT_2 activates while fob button 2 is pressed.
Fob Button 3	PROG_OUT_3 activates while fob button 3 is pressed.
Fob Button 4	PROG_OUT_4 activates while fob button 4 is pressed.
Door Handle Touch	RELAY_20A_2 activates for 500 msec when the LF module senses a handle touch.

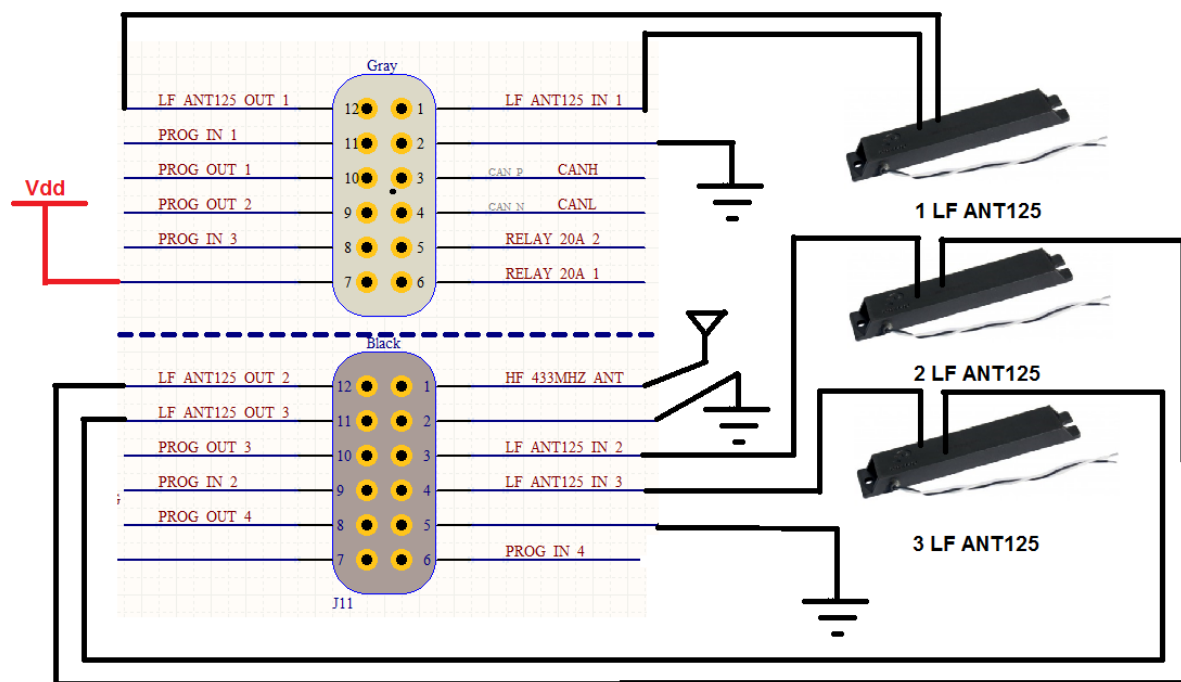
Power Supply	6.5V to 16V
Nominal	12V
Quiescent Current (no load)	311uA
Nominal (load)	2.5mA
On Board relays (active)	30A
Normal (Actuator)	5A

All ANT125 are bi-directional. They can be plugged in either way

IO Module FCC version

LF will constantly generate a 125 KHz wave on channel 1 as long as it is plugged in. Do not leave on more than 4 hours at a time. Channels 2 and 3 use the same circuit, but will not be on.

Wiring diagram



= 42 inch 18 gauge wire as a reciever

All antennas are bi-directional

This device complies with Industry Canada licence-exempt RSS-210 standard. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le manuel d'utilisation des appareils radio exempts de licence doit contenir l'énoncé qui suit, ou l'équivalent, à un endroit bien en vue et/ou sur les appareils :

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).