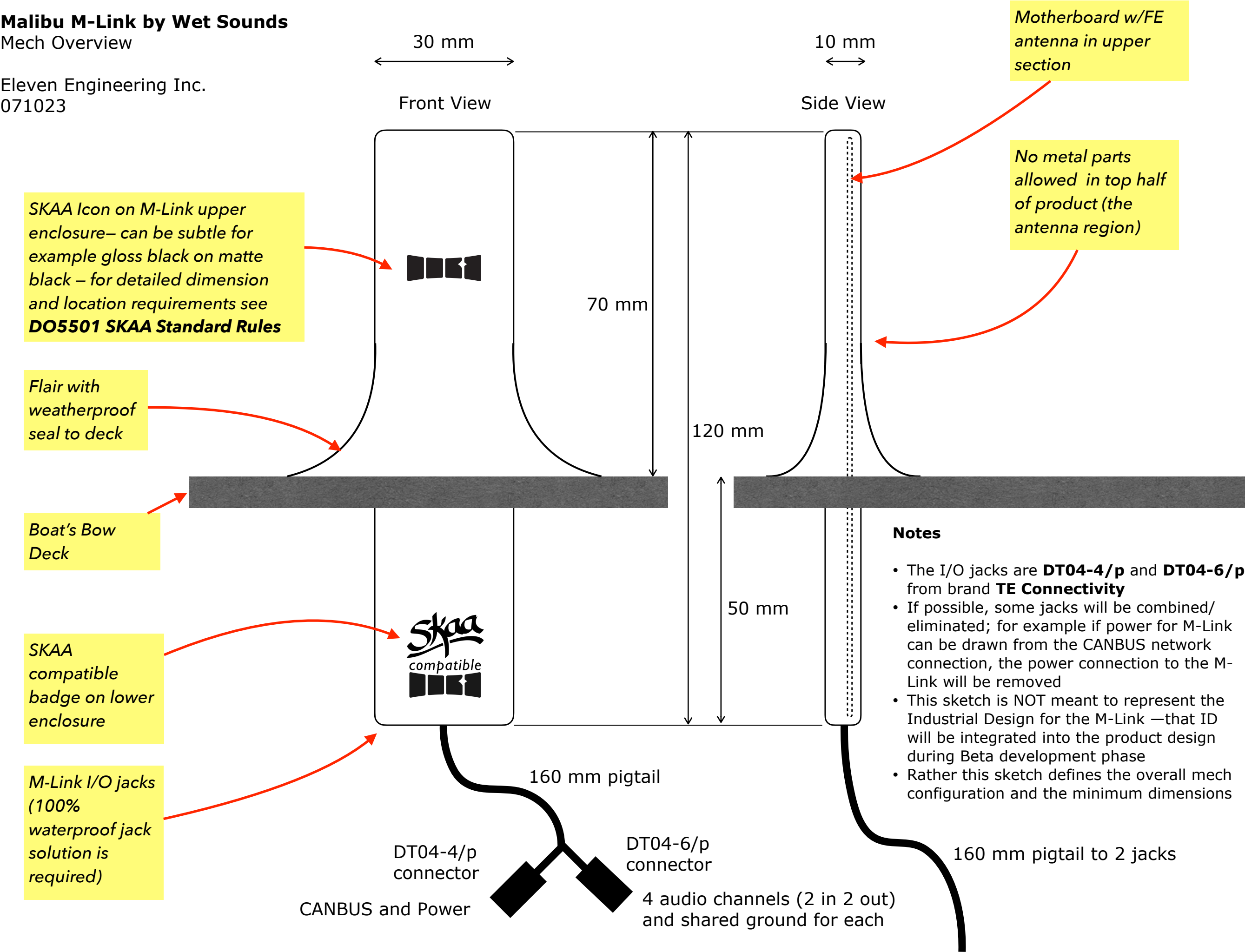


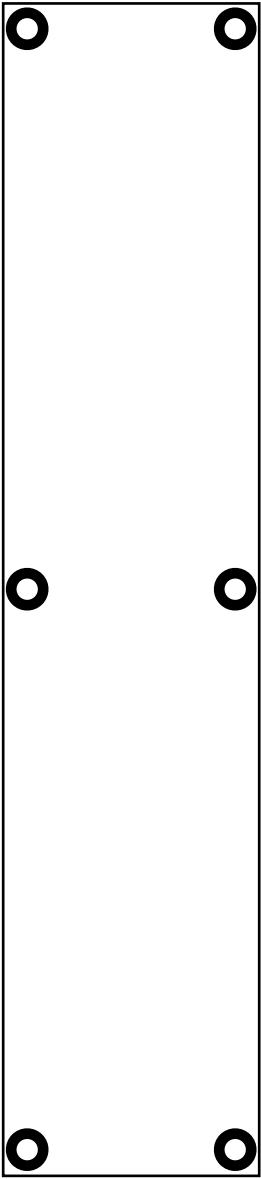


Malibu M-Link by Wet Sounds
Motherboard PCB dimensions

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061923

*PCB is 1.6 mm
thick*

*All components
one side*



110.0 mm

24.0 mm

- Notes**
- This is the MFD screen when the M-Link is in Transmit mode
 - Global Volume for the M-Link (SKAA API hVOL) is always fixed at “full up” (0xFF).

Marty’s Leviathan

TRANSMIT  RECEIVE
OFF

4 Receivers are Bonded:

 *Sabine’s Nazomi*

 *the Kraken*

  *Jim’s Speaker Pair*



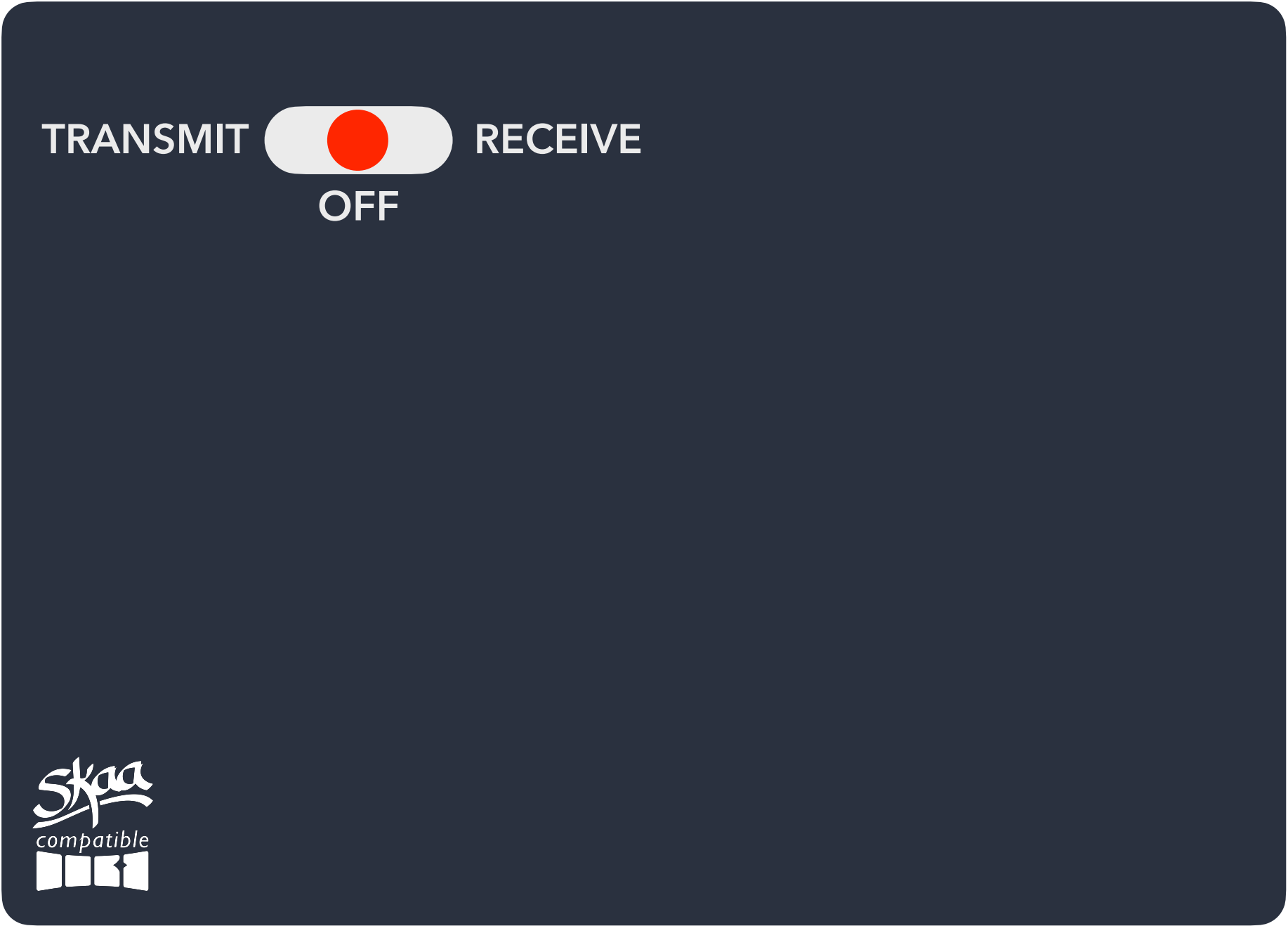
Malibu M-Link by Wet Sounds

MFD Software UI - Mode = OFF

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063023

Notes

- This is the MFD screen when the M-Link is set to OFF



Eleven Engineering Inc.
062823

- This is the MFD screen when the M-Link is in Receive mode
- Specifically, this is what the screen looks like BEFORE the chevron (bottom right) is clicked

The image shows a user interface for a device named "Marty's Leviathan". At the top left, the name "Marty's Leviathan" is displayed in a stylized font. Below it, there is a toggle switch labeled "TRANSMIT" and "RECEIVE" with the word "OFF" underneath. To the right of the toggle is a green circle. Further right, there are two arrow icons pointing left and right, and a green circle. Below the toggle, there is a logo for "Skaa compatible" and the text "Bonded to favorite 3". To the right of this, there is a "Favorites" section with two buttons: "Hunt" (highlighted with a green border) and "Swing" (highlighted with a red border). Below the "Favorites" section, there is a "New" section with a button labeled "Explore" (highlighted with a yellow border) and a "+" button. At the bottom, there are two tables. The left table has 5 rows, with the third row highlighted by a green arrow pointing to it. The right table has 6 rows. A large white arrow points to the right on the far right side of the interface.

Marty's Leviathan

TRANSMIT ☐ OFF RECEIVE

Skaa compatible

Bonded to favorite 3

Favorites

Hunt

Swing

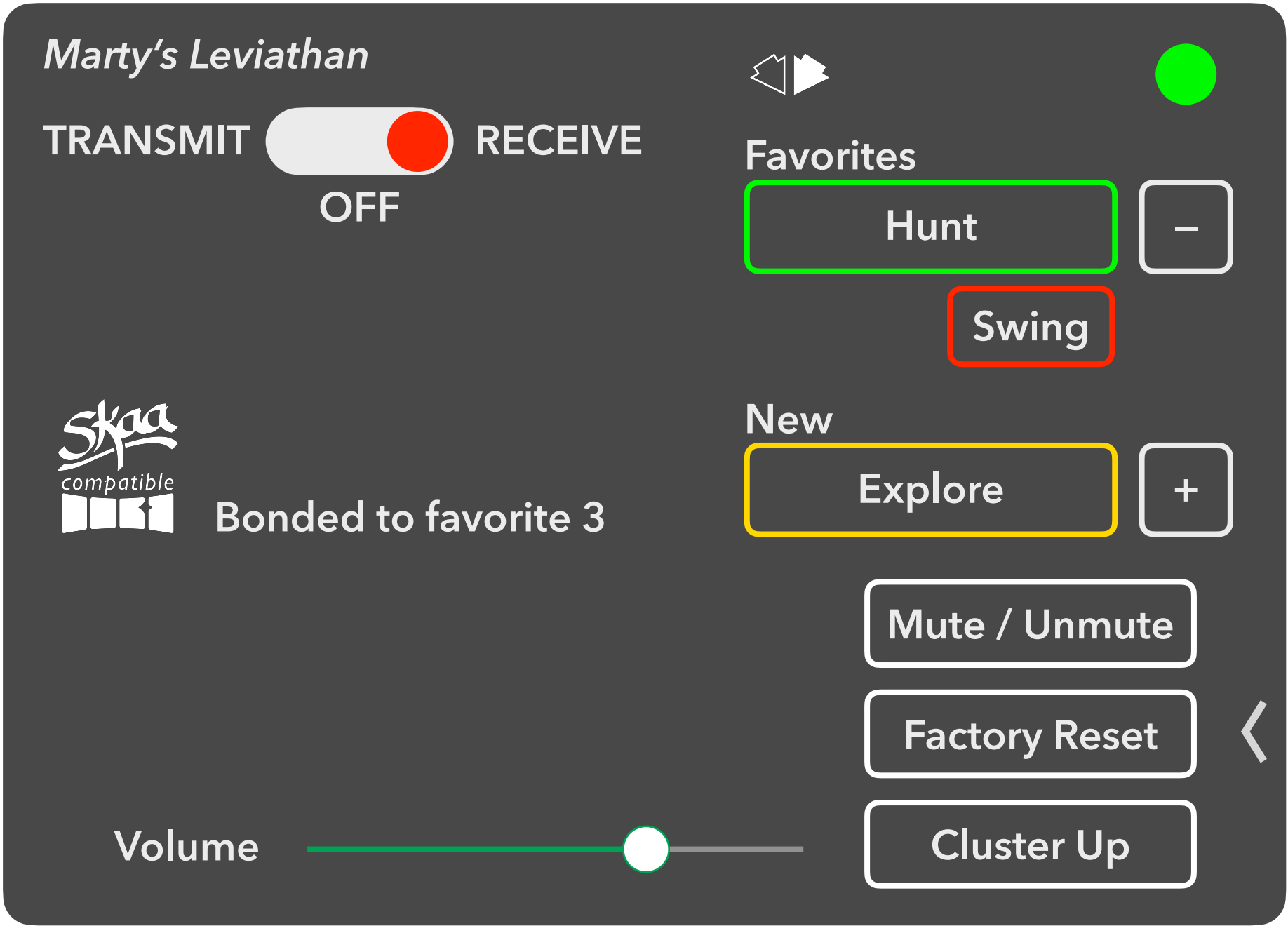
New

Explore

1		Wake Up
2		the Kraken
3	→	Sabine's Nazomi
4		Hammer Cruz
5		

6		
7		
8		
9		
10		

- Notes**
- This is the MFD screen when the M-Link is in Receive mode
 - Specifically, this is what the screen looks like AFTER the chevron (bottom right) is clicked
 - The chevron reveals power user feature buttons plus a local SKAA volume fader
 - Factory Reset will max bVTR
 - bVTR will also be set to max on Power Up



- Notes**
- In the MFD software UI, most of the multi-click Bond Button functions have a dedicated button (Receive mode only)
 - A fully spec-compliant Bond button is also implemented to spec in the software UI (Receive mode only)

Essentials

 <i>Button</i>	<i>Command</i>	<i>Indicator</i>
Hold a few seconds	<u>Add / Delete</u> Manually add / delete the current transmitter to / from your Green List	 to  = Added  (flash) = Deleted
-	<u>Auto Add</u> SKAA will automatically add the current Amber transmitter to your Green List if you listen to it for 30 minutes	 to  = Added
1 Click	<u>Green Mode</u> Rotate through your list of <i>favourite</i> transmitters (Green List) — when a favourite transmitter is found, the search stops and audio plays from that transmitter	 (dim) = Hunting  (flash) = Next one  (bright) = Bonded
2 Clicks	<u>Amber Mode</u> <i>Explore</i> for new, unknown transmitters (ones which are not already on your Green List)	 (dim) = Hunting  (bright) = Bonded

More Commands

 <i>Button</i>	<i>Command</i>	<i>Indicator</i>
3 Clicks	<u>Mute</u> do again to Unmute; any Click command will first Unmute and then do its function	 ,  or  = Muted (slow flash)
4 Clicks	<u>Red Mode</u> If you have 2 or more transmitters on your Green List, power on just the one you want to hear and it plays automatically.	 (dim) = Hunting  (bright) = Bonded
6 Clicks	<u>Factory Reset</u> Clear Green List. Start Over!	 (flash) = Reset Done
Hold during power on	<u>Make a Cluster of Receivers:</u> 1. Power off all transmitters and receivers 2. Power on the Master receiver while holding down its Bond Button—hold the button down until the Indicator begins to flash Red 3. With the remaining receivers within 3 meters of the Master receiver, power on the first one, wait for its Indicator to flash Red and then power on the second one; continue until all of them are powered on 4. Once all of the Indicators stop flashing (turn solid Red), power off all of the receivers	 (flash) = Receiver has entered 'Cluster Up' mode  (bright) = The Cluster has been successfully made

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 or more 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 important announcement

Important Note:

Radiation Exposure Statement

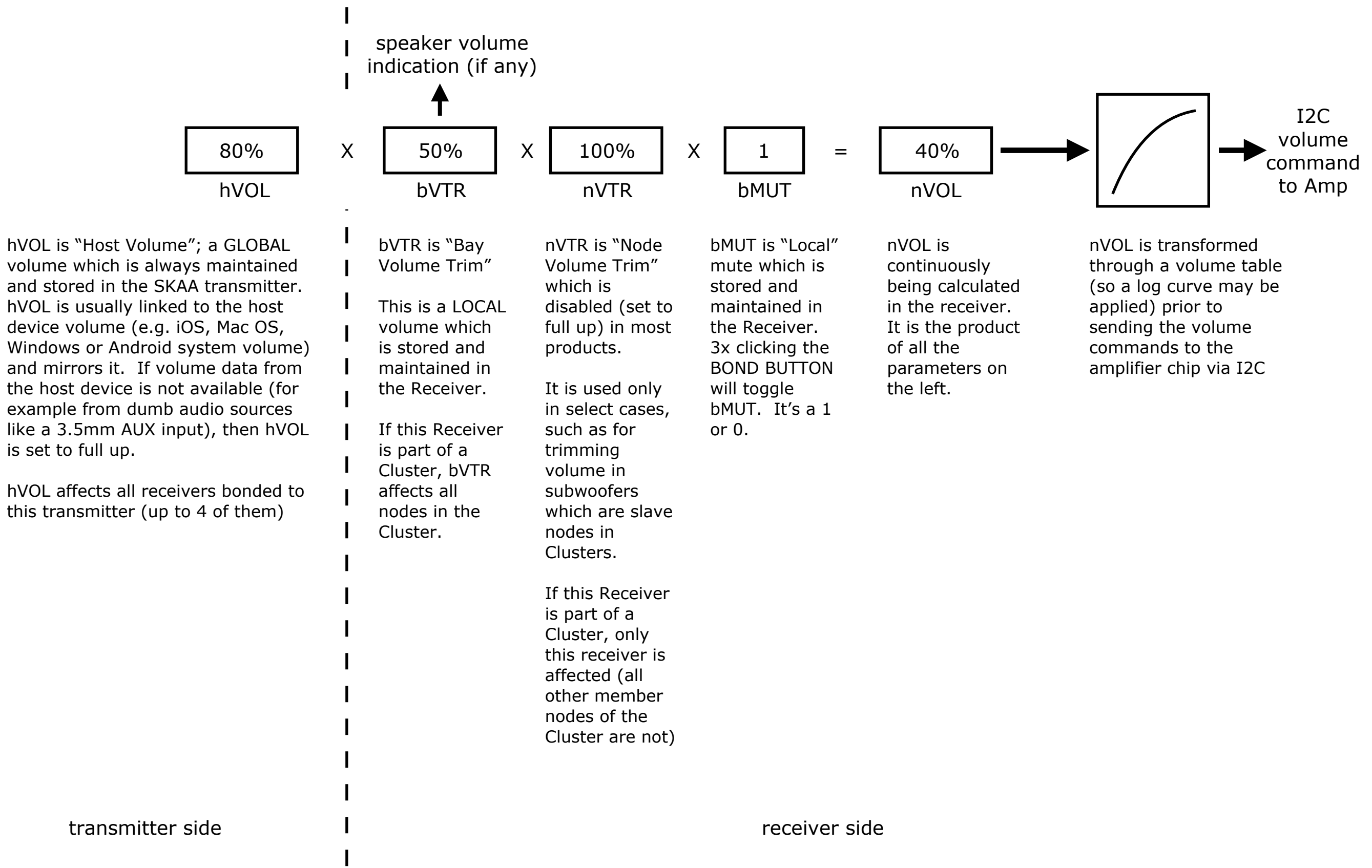
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Malibu M-Link by Wet Sounds

How SKAA Volume Works

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- Notes
- M-Link Global Volume (SKAA API hVOL) is always fixed at “full up” (0xFF)
 - M-Link I2C volume scaling takes place in the DAC chip



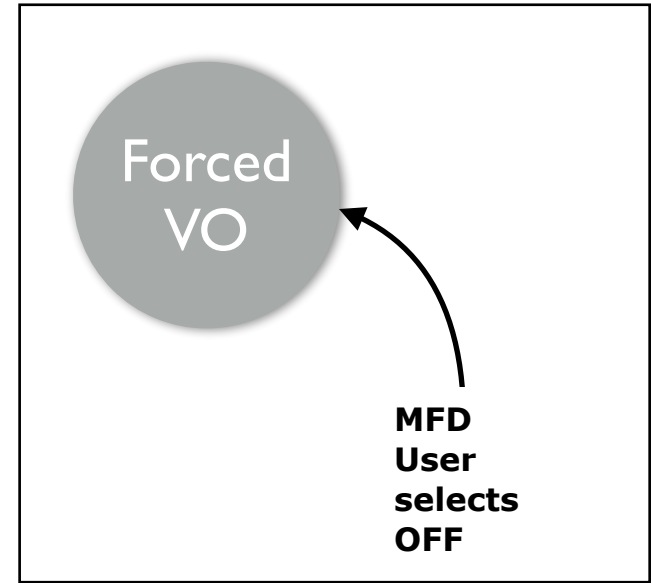
Malibu M-Link by Wet Sounds

Power States

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- Notes**
- “VO” means Virtual Off —this is a power saving state for SKAA transmitters, triggered by lack of audio (silence).
 - In VO state, Ginseng’s RF section is shut off causing all Bonds to drop (all Bonded SKAA receivers are dropped)
 - “Standby” is a power saving state for SKAA receivers.
 - in Standby state, Ginseng shuts off the ADC, DAC and buffers
 - “Sleep” is a power saving state for SKAA receivers. Sleep is triggered by a loss of Bond.
 - In Sleep state, the SKAA receiver improves on the power saving performance of Standby state by also duty cycling the SKAA radio. You can tell the unit has gone to sleep when the SKAA indicator shuts off and the Power LED dims
 - Powering off certain chips will be effected by holding them in RESET
 - Power OFF commands sent from MFD to M-Link will actually place the M-Link into VO or Sleep state

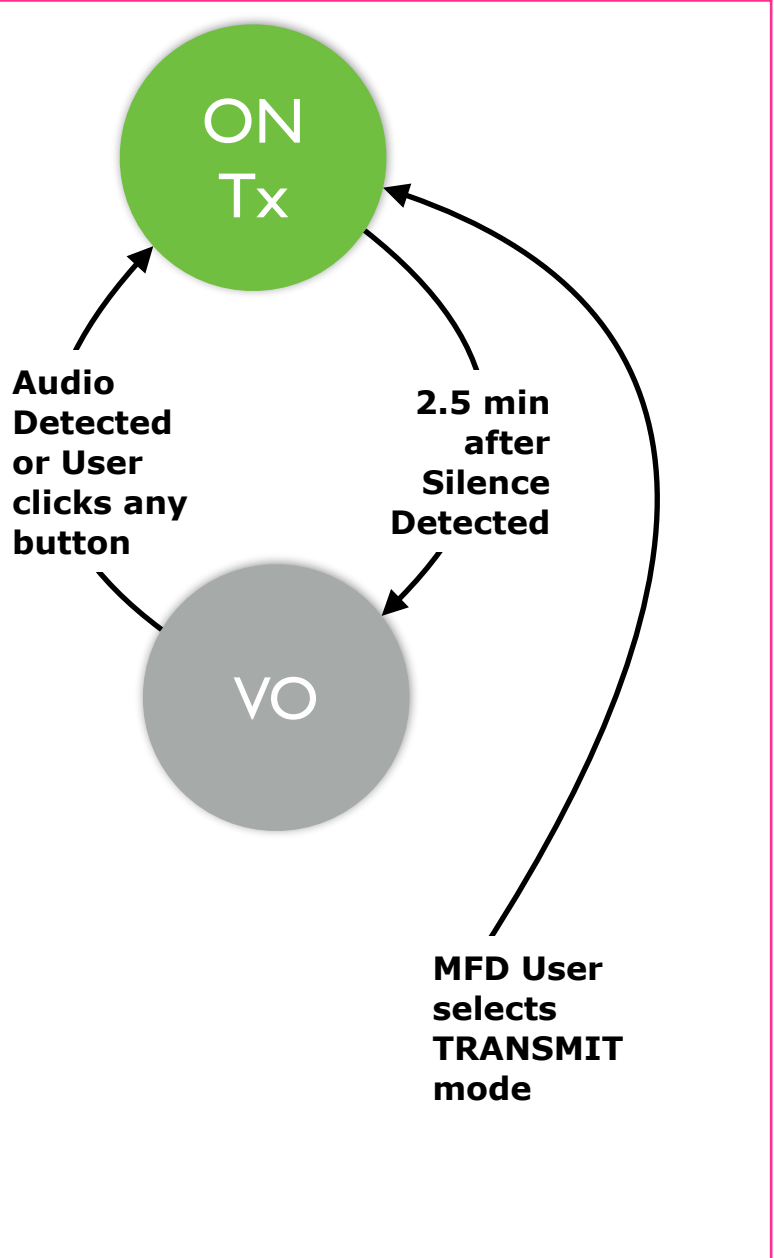
All modes



Chip Power

Chip:	Ginseng	ADC	DAC	CANBUS interface
ON Tx	√	√	-	√
VO	RF off	√	-	√
Forced VO	RF off	-	-	√
ON Rx	√	-	√	√
Standby	√	-	-	√
Sleep	RF 33% duty cycle	-	-	√

Tx mode



Rx mode

