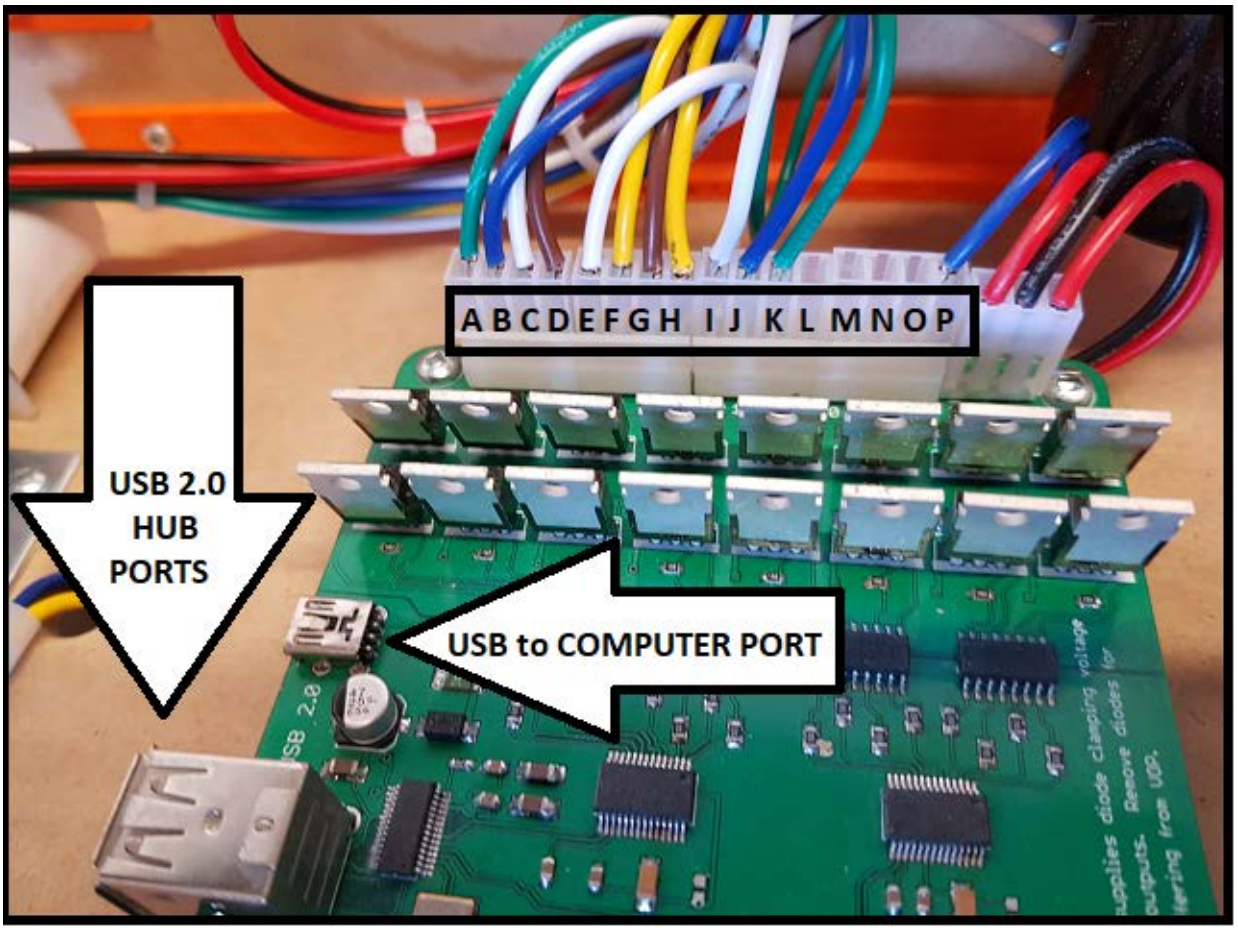
EZINSTALL BASIC

ADDENDUM

Starting in January 2018 the pacled64 controller has been replaced with a dual FTDI controller board designed and produced by Zebsboards.com on the EZINSTALL BASIC kits.

While the majority of the kit design and connection remains the same, there are several differences in the actual configuration of the wiring connections and DOF software configuration.

Since the board is based around the FTDI 245RL chip, the controller selection in DOF is referenced as Sainsmart Board 1 and Sainsmart board 2 in this manual.



WIRING CONNECTIONS:

Sainsmart Board 1 Assignment

A	Left Flipper	-	Port 4
B	Left Slingshot	-	Port 7
C	Middle Bumper Left	-	Port 8
D	Middle Bumper Center	-	Port 6
E	Middle Bumper Right	-	Port 2
F	Back Bumper Left	-	Port 3
G	Back Bumper Center	-	Port 5
H	Back Bumper Right	-	Port 1

Sainsmart Board 2 Assignment

I	Shaker Motor	-	Port 4
J	Right Slingshot	-	Port 7
K	Right Flipper	-	Port 8
L	OPEN	-	Port 6
M	OPEN	-	Port 2
N	OPEN	-	Port 3
O	OPEN	-	Port 5
P	Replay Knocker	-	Port 1

USB Hub Properties

The onboard hub is USB 2.0 and is protected against reverse voltage and power surge by onboard diodes and a self resetting PTC fuse. The hub is capable of supporting devices up to 500ma as per the USB 2.0 specification and is suitable for Zebsboards plungers, keyboard, mouse, USB thumbdrive devices, etc. It is NOT designed to supply enough power to effectively run the ledwiz or other output controllers without supplemental power connections.

DOF Installation

Installation of the Direct Output Framework (DOF) is essentially the same as with previous versions of the kit. DOFConfigTool examples for the current revision are illustrated in the following pages.

Current Version: 2755

Home | Port Assignments | Table Configs | Version History | My Account | Stats | Combine Toys | Logout

Account Settings

My API Key	WumfIIsUyW7UO9XrfYbW
Config Contributions	0
Number of Ledwiz Devices	0
Number of PacDrive Devices	0
Number of WS2811 Devices	0
Number of Artnet Devices	0
Number of PacLed Devices	0
Number of SainSmart Devices	2
Number of Pinscape Devices	0
Number of FRDM-KL25Z Devices	0
Number of Ultimate/IO Devices	0
Number of Philips_Hue Devices	0
Generate nofeedback files	No
Remove fade from Front Buttons	Yes
Ledwiz Framework	DirectOutput

Notification Options

Receive Email Notifications

Account Settings

Select **2** devices in the **Number of Sainsmart Devices** drop down menu as as shown in the preceeding example.

If you will be using the open ports to flash the front panel buttons of your cab, select **YES** in the **Remove Fade From Front Buttons** drop down menu.

Select **DIRECT OUTPUT** in the **Ledwiz Framework** drop down menu.

Port Assignments

Sainsmart 1 Configuration

Select SainSmart 1 – directoutputconfigini40 in the Device drop down menu and assign ports as follows:

Port 1 - 10 Bumper Back Right

Port 2 - 10 Bumper Middle Right

Port 3 - 10 Bumper Back Left

Port 4 - Flipper Left

Port 5 - 10 Bumper Back Center

Port 6 - 10 Bumper Middle Center

Port 7 - Slingshot Left

Port 8 - 10 Bumper Middle Left

Current Version: 2755

Home | Port Assignments | Table Configs | Version History | My Account | Stats | Combine Toys | Logout

Device: SainSmart 1 - directoutputconfigini40

Save Config | Generate Config | Clear Fields

Shaker Motor
Min Intensity: 48 Max Intensity: 48

Fan
Min Intensity: 48 Max Intensity: 48

Custom Brightness
Strobe 48 PF Strobe MX FF Flasher FF Ledstrip Flasher FF

Contactor variables

Set Intensity and Duration to 0 if you don't want feedback to these events

Port 1	10 Bumper Back Right
Port 2	10 Bumper Middle Right
Port 3	10 Bumper Back Left
Port 4	Flipper Left
Port 5	10 Bumper Back Center
Port 6	10 Bumper Middle Center
Port 7	Slingshot Left
Port 8	10 Bumper Middle Left

Targets Duration: 60 Intensity: 48

Drop Targets Duration: 60 Intensity: 48

Ledstrip variables Revert Default Check here for explanation of the positioning parameters

	AH	AL	AT	AW	Color	SHP
Strobe MX Left	30	0	0	9	White	Circle3
Strobe MX Right	30	91	0	9	White	Circle3
Flasher MX Left Out	100	0	0	19		Circle3
Flasher MX Left	100	20	0	19		Circle3
Flasher MX Center	100	40	0	19		Circle3
Flasher MX Right	100	60	0	19		Circle3
Flasher MX Right Out	100	80	0	19		Circle3
Flasher MX Character Left Out	100	0	0	14		

Sainsmart 2 Configuration

Select SainSmart 2 – directoutputconfigini41 in the Device drop down menu and assign ports as follows:

Port 1 - Knocker

Port 2 - Empty

Port 3 - Empty

Port 4 - Shaker

Port 5 - Empty

Port 6 - Empty

Port 7 - Slingshot Right

Port 8 - Flipper Right

Current Version: 2755

Home | Port Assignments | Table Configs | Version History | My Account | Stats | Combine Toys | Logout

Device: SainSmart 2 - directoutputconfigini41

Save Config | Generate Config | Clear Fields

Shaker Motor
Min Intensity: 48 Max Intensity: 48

Fan
Min Intensity: 48 Max Intensity: 48

Custom Brightness
Strobe 48 PF Strobe MX FF Flasher FF Ledstrip Flasher FF

Contactor variables

Set Intensity and Duration to 0 if you don't want feedback to these events

Port 1	Knocker			
Port 2				
Port 3				
Port 4	Shaker			
Port 5				
Port 6				
Port 7	Slingshot Right			
Port 8	Flipper Right			

Targets — Duration: 60 Intensity: 48

Drop Targets — Duration: 60 Intensity: 48

Ledstrip variables Revert Default Check here for explanation of the positioning parameters

Strobe MX Left	AH	30	AL	0	AT	0	AW	9	Color	White	SHP	Circle3				
Strobe MX Right	AH	30	AL	91	AT	0	AW	9	Color	White	SHP	Circle3				
Flasher MX Left Out	AH	100	AL	0	AT	0	AW	19	SHP	Circle3						
Flasher MX Left	AH	100	AL	20	AT	0	AW	19	SHP	Circle3						
Flasher MX Center	AH	100	AL	40	AT	0	AW	19	SHP	Circle3						
Flasher MX Right	AH	100	AL	60	AT	0	AW	19	SHP	Circle3						
Flasher MX Right Out	AH	100	AL	80	AT	0	AW	19	SHP	Circle3						
Flasher MX Character Left Out	AH	100	AL	0	AT	0	AW	14								